



# भारत का राजपत्र The Gazette of India

प्राधिकार से प्रकाशित  
PUBLISHED BY AUTHORITY

सं० 6] नई दिल्ली, शनिवार, फरवरी 11, 1989 (माघ 22, 1910)  
No. 6] NEW DELHI, SATURDAY, FEBRUARY 11, 1989 (MAGHA 22, 1910)

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके  
(Separate paging is given to this Part in order that it may be filed as a separate compilation)

## भाग III—खण्ड 2

### [PART III--SECTION 2]

पेटेंट कार्यालय द्वारा जारी की गई पेटेंटों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस

[Notifications and Notices issued by the Patent Office relating to Patents and Designs]

#### THE PATENT OFFICE PATENTS AND DESIGNS

Calcutta, the 11th February 1989

#### ADDRESS AND JURISDICTION OF OFFICES OF THE PATENT OFFICE

The Patent Office has its Head Office at Calcutta and Branch Offices at Bombay, Delhi and Madras having territorial jurisdiction on a zonal basis as shown below :—

Patent Office Branch,  
Todi Estates,  
III Floor, Lower Parel (West),  
Bombay-400 013.

Telegraphic address "PATOFFICE".

The States of Gujarat, Maharashtra, and Madhya Pradesh and the Union Territories of Goa, Daman and Diu and Dadra and Nagar Haveli.

Patent Office Branch,  
Unit No. 401 to 405, III Floor,  
Municipal Market Building,  
Saraswati Marg, Karol Bagh,  
New Delhi-110 005.

Telegraphic address "PATENTOFIC".

The States of Haryana, Himachal Pradesh, Jammu and Kashmir, Punjab, Rajasthan and Uttar Pradesh and the Union Territories of Chandigarh and Delhi.

Patent Office Branch,  
61, Wallajah Road,  
Madras-600 002.

Telegraphic address "PATENTOFIS".

The States of Andhra Pradesh, Karnataka, Kerala, Tamil Nadu, and the Union Territories of Pondicherry, Laccadive, Minicoy and Aminidivi Islands.

Patent Office (Head Office),  
"NIZAM PALACE", 2nd M. S. O. Building,  
5th, 6th and 7th Floor,  
234/4, Acharya Jagadish Bose Road,  
Calcutta-700 020.

Telegraphic address "PATENTS".

Rest of India.

All applications, notices, statements or other documents or any fees required by the Patents Act, 1970 or the Patents Rules, 1972 will be received only at the appropriate Office of the Patent Office.

**Fees :—**The fees may either be paid in cash or may be sent by Money Order, or Postal Order, payable to the Controller of the appropriate Offices or by bank draft or cheque, payable to the Controller drawn on a scheduled bank at the place where the appropriate office is situated.

## REGISTRATION OF PATENT AGENTS

The 5th January 1989

The following persons have been registered as patent Agents :—

1 Veena Chaturbhuj Gvalani,  
Atur Park, Bldg. No. 3/1, 3rd Floor,  
8, T. Road, Chembur,  
Bombay-400 071

2 Mahesh Raghvan Menon,  
5 Sukh-Dham,  
199, Gaothan Road-1,  
Chembur, Bombay-400 071.

PATENT OFFICE BRANCH, BOMBAY 400013

## CORRIGENDUM

(1) In the Gazette of India, Part III, Section 2, dated November 5, 1988 under the heading "Complete Specification Accepted" on page No. 1172 and 1174.

(i) In respect of Patent No. 163724 (64/BOM/1986) in claims in line 11 for CHORINE *read as* CHLORINE.

(ii) In respect of Patent No. 163729 (360/BOM/1986) dated of Application filed for 30th December, 1986 *read as* 23rd December, 1986.

(2) In the Gazette of India, Part III, Section 2 dated November, 12, 1988 under the heading "Application for Patents filed in the Patent Office Branch, Bombay-400013," on page 1199.

(i) In respect of Patent Application No. 253/BOM/1988. Date of Patent filed *read as* 6th September, 1988 for 9th September, 1988.

(ii) In respect of Patent Application No. 268/BOM/1988 Titled or invention *read as* "HYDRAULIC SPEED VARIATION SYSTEM".

(iii) In respect of Patent Application No. 269/BOM/1988 name of applicant *read as* 'CHOUDHARI VIJAI MADHAVRAO'.

(3) In the Gazette of India, Part III, Section 2, dated 27th August, 1988 under the Heading "Complete Specification Accepted".

(i) In respect of Patent No. 163245 (190/BOM/1985) International classification *read as* G 01 F-1 00.

APPLICATION FOR PATENTS FILED AT THE HEAD OFFICE, 234/4, ACHARYA JAGADISH BOSE ROAD, CALCUTTA-20

The dates shown in the crescent brackets are the dates claimed under Section 135. of the Patents Act, 1970.

The 3rd January 1989

10/Cal/89. Kievsky Politekhicheskyy Institut Imeni 50-letia Velikoi Oktyabrskoi Sotsialisticheskoi Revoliutsii USSR. Odessky Inzhenerno-Stroitelny Institut USSR. Apparatus for indirect evaporative gas cooling.

11/Cal 89. Colortronic Reinhard GmbH & Co. K. and Firma Franz Muller. Cutting Mill.

The 4th January 1989

12/Cal/89. Projects & Development India Limited. A process for the simultaneous production of explosive grade potassium nitrate and fertilizer grade ammonium chloride.

13/Cal 89. 2 Moskovsky Gosudarstvenny Meditsinsky Institut Imeni N. I. Pirogova. Intravenous Filter.

14/Cal/89. Du Pont Canada, Inc. A composition containing a high molecular weight polymer. [Divisional dated 7th April, 1986].

(Convention dated 12th April, 1985). U. K.

15/Cal 89. Veb Kombinat Nagema. Process for the production of parboiled rice.

The 6th January 1989

16/Cal/89. Institut Mekhaniki Metallopolimernykh Sistem Akademii Nauk Belorusskoi SSR. Extruder head for making anti-corrosive tubular polymeric film.

17/Cal 89. Emitec Gesellschaft Fur Emissionstechnologie MBH. Assembled shaft, especially camshaft, crankshaft or driveshaft.

The 9th January 1989

18/Cal/89. Dev Dutt Mohanty. Method for the production of chromium metal.

19/Cal 89. Siemens Aktiengesellschaft. A method of preparing insulated electrical devices of moulded products. [Divisional dated 11-9-85].

20/Cal/89. Westinghouse Electric Corporation. Improvements in or relating to circuit breaker with over-temperature protection and low error it calculator.

21/Cal/89. Westinghouse Electric Corporation. Improvements in or relating to molded case circuit breaker with viewing window and sliding barrier.

22/Cal 89. Noel Connaughton and Stephen Connaughton. Animal dip apparatus. (Convention dated 9th January, 1988) Ireland.

23/Cal/89. Indian Jute Industries' Research Association. Jute based laminates.

24/Cal/89. Martin Engineering Company. Conveyor skrit Board, clamp and mounting arrangement.

The 10th January 1989

25/Cal 89. E. I. Du Pont De Nemours and Company. Method for making polyimide anion solutions.

26/Cal/89. Drolla Fuels Pvt. Ltd. A process for manufacture of coke briquettes with mill scale for desilicising of iron produced in blast furnace.

27/Cal 89. Manoj Kumar Jain. Bottom adjustable steel prop.

28/Cal/89. Manoj Kumar Jain. Top adjustable steel prop.

29/Cal 89. Manoj Kumar Jain. Extensible steel prop.

The 11th January 1989

30/Cal/89. Kent-Moore Corporation. Refrigerant recovery purification and recharging system.

31/Cal 89. Maschinenfabrik Gustav Eirich. A method of extracting liquid from wet material.

APPLICATION FOR PATENTS FILED AT THE PATENT OFFICE BRANCH, MUNICIPAL MARKET BUILDING, THIRD FLOOR, KAROL BAGH, NEW DELHI-110005

The 19th December 1988

1118/Del/88. Appropriate Technology Development Association, "Process and apparatus for producing liquid sugar from open pan sugar molasses".

1119/Del/88. Bharat Heavy Electricals Ltd., "Method of reconditioning dot-matrix print head assemblies of computers".

1120/Del/88. Motorola, Inc., "Trunked communication system with nationwide roaming capability".

1121/Del/88. M & T Chemicals, Inc., "Method of producing transparent, haz-free tin oxide coatings". [Divisional date 29th April, 1986].

1122/Del/88. The Lubrizol Corporation, "Alpha-olefin polymers".

1123/Del/88. Alcan International Ltd., "Recovery of non-ferrous metals from dross". (Convention date 22-12-87 & 7-10-88) (Canada).

The 20th December 1988

1124/Del/88. Maschinfabrik Sulzer-Burckhardt AG., "A valve set for a reciprocating compressor".

1125/Del/88. PPG Industries, Inc., "Discrete glass cutting and edge shaping".

1126/Del/88. Banque De France, "A method of duplicating steel intaglio print elements, and apparatus for implementing the method".

1127/Del/88. Rolls-Royce PLC., "A three phase electrical converter with a neutral". (Convention date 5th March, 1988) (U. K.).

The 21st December 1988

1128/Del/88. Council of Scientific & Industrial Research, "An improved process for the synthesis of O-(3, 6-di-o-methyl  $\beta$ -D-glucopyranosyl)-(1 $\rightarrow$ 4) - O-(2, 3-di-o-methyl  $\alpha$  L-Rhamnopyranosyl)-(1 $\rightarrow$ 9) oxynonanoyl bovine serum albumin".

1129/Del/88. Council of Scientific & Industrial Research, "A process for the preparation of cerealassi concentrate".

1130/Del/88. Council of Scientific & Industrial Research, "A process for preparing a heat sensitive recording paper and a heat sensitive recording paper prepared thereby".

1131/Del/88. Council of Scientific & Industrial Research, "An improved process for the desalination of sea water by electrodialysis".

1132/Del/88. Council of Scientific & Industrial Research, "A process for synthesis of  $\alpha$  and  $\beta$  isomers of 6-amino-4(SH)-oxo - 1 - xylofuranosyl pyrazolo (3, 4-d) pyrimidine".

1133/Del/88. Council of Scientific & Industrial Research, "A process for the manufacture of beach sand sillimanite based low moisture castable having alumina content in the range of 51-75%".

1134/Del/88. Council of Scientific & Industrial Research, "A process for the preparation of 1-aryl or alkyl-4-substituted aminomethyl penta-1, 4-dien-3 ones useful as supermicidal agents".

1135/Del/88. Council of Scientific & Industrial Research, "A process for manufacture of portland cement clinker using solid fuel by downdraft technique".

1136/Del/88. Europa Metall. LMI S.p.A., "A copper based alloy for obtaining aluminium-beta-brasses, containing grain size reducing additives".

1137/Del/88. Allied Signal Inc., "Article of manufacture with moisture insensitive oxygen barrier properties".

1138/Del/88. Belorussky Politekhichesky Institut, "Apparatus for electrochemical machining".

1139/Del/88. Belorussky Politekhichesky Institut, "Method of electrochemical machining of articles made of conducting materials".

The 22nd December 1988

1140/Del/88. Moton Thiokol, Inc., "Oxidizing salts of cubyl amines".

1141/Del/88. Eenergy Convention Devices, Inc., "Method for the continuous fabrication of hydrogen storage alloy negative electrodes".

1142/Del/88. Ethyl Corporation, "Coupling process".

1143/Del/88. Colgate Palmolive Co., "Substantially non-aqueous liquid detergent bleaching composition capable of washing and bleaching soiled fabrics". [Divisional date 19th March, 1986].

1144/Del/88. Energy Sergeevich Pervushin and Others, "Apparatus for centrifugal processing of parts".

1145/Del/88. Ciba-Geigy AG., "Smoke and toxic gas suppressant composition". (Convention date 23rd January, 1988) (U.K.).

1146/Del/88. Bakhtawarlal Sood, "Socket No. 37".

The 23rd December 1988

1147/Del/88. UOP, "Process for pretreatment of an isomerization process feedstock containing light hydrocarbons".

1148/Del/88. ICI Australia Ltd & Commonwealth Scientific and Industrial Research Organization, "A process for the preparation of zirconium composition". [Divisional date 18th April, 1986] & (Convention date 2nd May, 1985) (Australia).

1149/Del/88. E. R. Squibb & Sons, Inc., "Puriny and pyrimidinyl cyclobutanes".

APPLICATIONS FOR PATENTS FILED AT THE PATENT OFFICE BRANCH, 61, WALLAJAH ROAD, MADRAS-600 002

The 26th December 1988

917/Mas/88. American Standard Inc. Method of and apparatus for reconditioning railway car draft gears.

918/Mas/88. American Standard Inc. Railway car resilient side bearing.

919/Mas/88. Borden (U.K.) Limited. Foundry moulding composition. (January 12, 1988; United Kingdom).

The 27th December 1988

920/Mas/88. Owens-Illinois, Inc. A polymeric composition. (Divisional to Application No. 472/Mas/85).

921/Mas/88. Maschinenfabrik Reinhausen GmbH. Contact device for a tap selector of a tapped transformer.

922/Mas/88. Mitsubishi Iukogyo Kabushiki Kaisha. Method of burning solid fuel by means of a fluidized bed.

923/Mas/88. Mobil Oil Corporation. Oilin polymerization process with product viscosity and pour point control.

The 28th December 1988

924/Mas/88. EMC Corporation. Subsea well casing hanger suspension system.

925/Mas/88. EMC Corporation. Subsea well casing hanger packoff system.

926/Mas/88. Prodeco S. p. A. Tanning composition and its use in the tanning and post-tanning of animal hides.

The 29th December 1988

927/Mas/88. B. A. V. K. Sharma. The manufacture of potassium carbonate from mineral feldspar.

928/Mas/88. B. A. V. K. Sharma. The manufacture of dicalcium phosphate pure grade from wet process phosphoric acid.

929/Mas/88. B. A. V. K. Sharma. The manufacture of phosphoric acid technical grade from wet process phosphoric acid route.

930/Mas/88. Stork Screens B. V. A method for printing materials. (May 3, 1985; New Zealand).

(Application of Division to 439/Mas/85).

931/Mas/88. Maschinenfabrik Rieter AG. A method of and apparatus for exchanging roving bobbins on a ring spinning machine.

The 30th December 1988

932/Mas/88. Dr. T. S. Kumar. A drug for human usage.

933/Mas/88. Namakkal Sadasiva Iyar Kodanda Raman. Some improvements in transmission system in motor vehicles - performing several functions in one operation.

934/Mas/88. Dartnall Engineering &amp; Innovation Pty. Ltd. A valve.

## ALTERATION OF DATE

164259 Ante dated to 28th January, 1985.  
(28/Cal/88).164260 Ante dated to 12th February, 1985.  
(210/Cal/88).164295 Ante dated to 5th November, 1985.  
(922/Mas/86).

## OPPOSITION PROCEEDINGS

(1)

The application for Patent No. 149522 made by T. T. Private Limited, Bangalore, India in respect of which opposition was entered by Mahavir Appliances, Hyderabad, India as notified in the Gazette of India, Part III, Section 2 dated the 10th July, 1982 has been treated as withdrawn.

(2)

The application for Patent No. 149522 made by T. T. Private Limited, Bangalore, India in respect of which opposition was entered by pressure cookers and appliances Limited, Bombay, India as notified in the Gazette of India, Part III, Section 2 dated 24th July, 1982 has been treated as withdrawn.

(3)

The Application for Patent No. 149522 made by T. T. Private Limited, Bangalore, India in respect of which opposition was entered by Mahavir Products, Bombay, India as notified in the Gazette of India, Part III, Section 2 dated 19th June, 1982 has been treated as withdrawn.

(4)

The Application for Patent No. 149522 made by T. T. Private Limited, Bangalore, India in respect of which Opposition was entered by Anjali Products Limited, Bombay, India as notified in the Gazette of India, Part III, Section 2 dated 19th June, 1982 has been treated as withdrawn.

(5)

The opposition entered by M/s. Honda Giken Kogyo Kabushiki Kaisha, Japan to the grant of a patent on the application for Patent No. 157824 made by M/s. Bajaj Auto Ltd., Pune as notified in the Gazette of India, Part III, Section 2 dated the 10th January, 1987 has been allowed on the grant of a patent on the application has been refused.

## CLAIM UNDER SECTION 20(1) OF THE PATENTS ACT, 1970

The claim made by System Bokk A/S under Section 20(1) of the Patents Act, 1970 to proceed the application for Patent No. 156082 in their name has been allowed.

## PATENTS SEATED

## CALCUTTA

152667	158071	161176	161395	161639	162004	162157
162192	162193	162372	162666	162669	162681	162682
162686	162687	162688	162703	162704	162705	162710
162712	162713	162716	162718	162743	162744	162745
162746	162748	162756	162758	162759	162781	162782
162783	162799	162811	162815			

## DELHI

158064	162298	162452	162505	162645	162680	162733
162952	162953	162957	162958			

## BOMBAY

162014	162020	162464	163031			
--------	--------	--------	--------	--	--	--

## MADRAS

162057	162691	162700	162721	162722	162724	162725
162726	162727	162728	162729	162771	162779	162804

## RENEWAL FEES PAID

141605	142860	143417	144690	144816	145642	145781
145814	146197	146312	146851	147320	147650	148054
148371	148419	148474	148916	149220	149600	149670
149941	149746	149751	149778	150489	150492	150743
150745	150880	150903	151122	151232	151702	152102
152206	153110	153141	153261	153402	153583	153717
154148	154455	154654	155195	155266	155506	155577
155686	155706	155725	155827	155973	155996	156013
156142	156203	156303	156305	156649	156852	156934
157175	157403	157464	157717	157760	157853	158320
158375	158581	159790	161065	161072	161123	161247
161342	161572	161573	161776	161816	161933	161938
161941	161991	162069	162111	162121	162141	162142
162184						

## CESSATION OF PATENTS

145611	145612	145615	145619	145622	145623	145624
145626	145627	145628	145633	145636	145639	145643
145645	145651	145652	145653	145655	145656	145658
145659	145660	145663	145664	145665	145666	145667
145668	145673	145674	145676	145678	145682	145686
145690	145691	145694	145695	145696	145699	145706
145708	145710	145712	145715	145716	145717	145720
145722	145723	145724	145725	145727	145728	145729
145730	145732	145733	145734	145735	145737	145738
145740	145741	145744	145747	145748	145750	145751
145753	145754	145760	145763	145764	145765	145766
145767	145769	145770	145771	145773	145775	145777

145778 145779 145782 145783 145785 145786 145787  
 145788 145790 145791 145794 145797 145799 145800  
 145801 145803 145804 145805 145807 145809 145810  
 145811 145812 149320 151823 154368 154808 155305  
 155320 157577 158169 160029 160316.

#### REGISTRATION OF DESIGNS

The following designs have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Design Act, 1911.

The date shown in the each entry is the date of registration of the design included in the entry.

Class 1. No. 159716. Bikrom Stainless Products, Mungekar Industrial Estate, Goregaon East, Bombay-400063, State of Maharashtra, India, an Indian Partnership firm. "Spoon-cum-fork". 17th May, 1988.

Class 1. No. 160083. Modesto Refrigeration Corporation, B-96, Lajpat Nagar, New Delhi-110024, India. An Indian Company. "Grill for room air conditioner". 5th September, 1988.

Class 1. No. 160081. M/s. Stapco Industries, 16 Rocky Industrial Estate, B. Patel Road, Goregaon (East) Bombay-400 063, State of Maharashtra, India, an Indian Partnership firm. "Stapler". 31st August, 1988.

Class 1. Nos. 160115 to 160117. The Jay Engineering Works Limited, 23, Kasturba Gandhi Marg, New Delhi-110001, India, an Indian Company. "Sewing Machine". 16th September, 1988.

Class 1. No. 160201. M/s. Engineering Tool Industries, 496, Nirankari St. No. 1, Overlock Road, Miller Ganj, Ludhiana (Punjab) India. An Indian Partnership concern. "Screw driver". 30th September, 1988.

Class 1. No. 160306. Peico Electronics & Electricals Limited, of Shivsagar Estate, Block 'A', Dr. Annie Besant Road, Worli, Bombay-400018, Maharashtra, India, an Indian Company. "a Luminaire". 24th October, 1988.

Class 1. Nos. 160369 to 160388. Stellar Modular Systems Pvt. Ltd., of 303, New India Industrial Estate Off Mahakali Caves Road, Andheri East, Bombay-400 093, Maharashtra, India, Indian Company. "Metal Profiles Modular Enlosures". 11th November, 1988.

Class 3. No. 160099. Ambitious Gold Nib Mfg. Company Private Limited. A Company incorporated under the Companies Act C-101-Phase-II, Mayapuri, New Delhi-110064, India. "Pen". 12th September, 1988.

Class 3. No. 159910. Kailash Agarwal, Indian National of Shaakuntal Industries, A-39 Royal Industrial Estate, Naigaum Cross Road, Wadala, Bombay-400 031, State of Maharashtra, India "Toilet Seat". 4th July, 1988.

Class 3. Nos. 160102 to 160107. Bothra Exports Private Limited, a Company incorporated under the Companies Act, 1956, Manufacturers and Traders, having its registered Office at 1, Tyre Terrace 205/207, Lamington Road, Bombay-400 007, Maharashtra, India. "Calculator". 12th September, 1988.

Class 3. No. 160229. Peico Electronics & Electricals Limited of Shivsagar Estate, Block 'A', Dr. Annie Besant Road, Worli, Bombay-400018, Maharashtra, India, an Indian Company. a "Television". 7th October, 1988.

Class 4. No. 160228. Peico Electronics & Electricals Limited, of Shivsagar Estate, Block 'A', Dr. Annie Besant Road, Worli, Bombay-400018, Maharashtra, India, an Indian Company. "Television". 7th October, 1988.

Class 5. No. 159799. M/s. Indu Hosiery Mills, 33/197, Maniram Bagia, Kanpur, U. P. (India), an Indian registered Proprietorship firm. "Cartons". 13th June, 1988.

Class 5. No. 159823. Lala Products, 22-A, Collector Ganj, Kanpur, (U.P.), India, an Indian registered Proprietorship firm. "Cartons". 15th June, 1988.

Class 5. No. 159919. Transelektra Domestic Products Private Limited, (an Indian Company under the Act) at 126 Creative Industrial Building, Sundernagar, Kalina, Bombay-400 098, State of Maharashtra, India. "Cartons". 5th July, 1988.

#### RESTORATION PROCEEDINGS

Notice is hereby given that an application for restoration of Patent No. 145311 dated the 31-8-76 made by Preformed Line Products Company on the 7-4-88 and notified in the Gazette of India, Part III, Section 2 dated the 20-8-88 has been allowed and the said Patent restored.

(2)

Notice is hereby given that an application for restoration of Patent No. 153250 dated the 29-5-82 made by Dr. Upendra Nath Bhrany on the 2-3-88 and notified in the Gazette of India, Part III, Section 2 dated the 30-7-88 has been allowed and the said Patent restored.

(3)

Notice is hereby given that an application for restoration of Patent No. 158165 dated the 19-2-83 made by Esmond Fonseca, Randhi Venkata Ramesh & Fredrick Etto on the 29-3-88 and notified in the Gazette of India, Part III, Section 2 dated the 30-7-88 has been allowed and the said Patent restored.

(4)

Notice is hereby given that an application for restoration of Patent No. 144609 dated the 24-5-76 made by Preformed Line Products Company on the 7-4-88 and notified in the Gazette of India, Part III, Section 2 dated the 20-8-88 has been allowed and the said Patent restored.

(5)

Notice is hereby given that an application for restoration of Patent No. 145137 dated the 30-4-76 made by Preformed Line Products Company on the 7-4-88 and notified in the Gazette of India, Part III, Section 2 dated the 20-8-88 has been allowed and the said Patent restored.

(6)

Notice is hereby given that an application for restoration of Patent No. 143418 dated the 9-4-76 made by Preformed Line Products Company on the 7-4-88 and notified in the Gazette of India, Part III, Section 2 dated the 20-8-88 has been allowed and the said Patent restored.

(7)

Notice is hereby given that an application for restoration of Patent No. 145244 dated the 8-6-76 made by Preformed Line Products Company on the 7-4-88 and notified in the Gazette of India, Part III, Section 2 dated the 20-8-88 has been allowed and the said Patent restored.

#### RESTORATION PROCEEDINGS

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 158236 granted to Dorothee Florence Engel Goldman for an invention relating to "a process for preparing a coated substrate for use in determining fertility in females".

The patent ceased on the 14-3-88 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part III, Section 2, dated the 3-12-88.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32, in duplicate, with the Controller of Patents, The Patents Office, "Nizam Palace", 2nd M.S.O. Building, 5th, 6th and 7th Floor, 234/4, Acharya Jagadish Bose Road, Calcutta-700 020 on or before the 11th April, 1989 under Rule 69 of the Patents Rules, 1972. A written statement, in triplicate, setting out the nature of the opponent's interest, the facts upon which he ceases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

## (2)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patents No. 159565 granted to Punjab Tractors Ltd. for an invention relating to "an integral harvester combine and baler".

The patent ceased on the 19-7-88 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part III, Section 2, dated the 3-12-88.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32, in duplicate, with the Controller of Patents, The Patents Office, "Nizam Palace", 2nd M.S.O. Building, 5th, 6th and 7th Floor, 234/4, Acharya Jagadish Bose Road, Calcutta-700 020 on or before the 11th April, 1989 under Rule 69 of the Patents Rules, 1972. A written statement, in triplicate, setting out the nature of the opponent's interest, the facts upon which he ceases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

## (3)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 159304 granted to Central Distillery & Breweries Ltd. for an invention relating to "a process and apparatus for the preparation of alcohol.

The patent ceased on the 10-8-88 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part III, Section 2, dated the 3-12-88.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32, in duplicate, with the Controller of Patents, The Patents Office, "Nizam Palace", 2nd M.S.O. Building, 5th, 6th and 7th Floor, 234/4, Acharya Jagadish Bose Road, Calcutta-700 020 on or before the 11th April, 1989 under Rule 69 of the Patents Rules, 1972. A written statement, in triplicate, setting out the nature of the opponent's interest, the facts upon which he ceases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

## (4)

Notice is hereby given that an application was made under Section 60 of the Patent Act, 1970 for the restoration of Patent No. 153116 granted to Unisystems Private Limited for an invention relating to "a cardboard box".

The patent ceased on the 17-11-87 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part III, Section 2, dated the 3-12-88.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32, in duplicate, with the Controller of Patents, The Patents Office, "Nizam Palace", 2nd M.S.O. Building, 5th, 6th and 7th Floor, 234/4, Acharya Jagadish Bose Road, Calcutta-700 020 on or before the 11th April, 1989 under Rule 69 of the Patents Rules, 1972. A written statement, in triplicate, setting out the nature of the opponent's interest, the facts upon which he ceases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

## COMPLETE SPECIFICATION ACCEPTED

Notice is hereby given that any person interested in opposing the grant of patents on any of the applications concerned, may, at any time within four months of the date of this issue or within such further period not exceeding one month applied for on Form 14 prescribed under the Patents Rules, 1972 before the expiry of the said period of four months, give notice to the Controller of Patents on the prescribed Form 15, of such opposition. The written statement of opposition should be filed along with the said notice or within one month of its date as prescribed in Rule 36 of the Patents Rules, 1972.

"The classifications given below in respect of each specification are according to Indian Classification and International Classification."

A limited number of printed copies of the specifications listed below will be available for sale from the Government of India Book Depot, 8, Kiran Sankar Roy Road, Calcutta in due course. The price of each specification is Rs. 2/- (postage extra if sent out of India). Requisition for the supply of the printed specifications should be accompanied by the number of the specifications as shown in the following list.

Typed or photo copies of the specifications together with photot copies of the drawings, if any, can be supplied by the Patent Office, Calcutta on payment of the prescribed copying charges which may be ascertained on application to that office. Photo copying charges may be calculated by adding the number of pages in the specification and drawing sheets mentioned below against each accepted specification and multiplying the same by four to get the charges as the copying charges per page are Re. 4/-.

CLASS : 128-E.

164251

Int. Cl. : A 61 b 5/04.

## CLIP-TYPE ELECTRODE FOR ELECTROCARDIOGRAPHS.

Applicant : FUKUDA DENSHI CO., LTD., OF 39-4, HONGO 3-CHOME, BUNKYO-KU, TOKYO 113, JAPAN.

Inventor : I. TAKASHI FUKUDA.

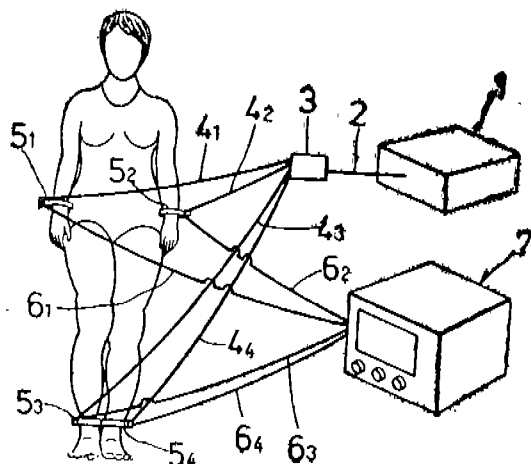
Application No. 448/Cal/85 filed June 14, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 4 Claims

A clip-type electrode for an electrocardiograph comprising a pair of metallic clamping plates for being opened and closed relative to each other about a common shaft and having concave surfaces facing each other, an electrode member for providing external circuitry mounted on one of said clamping plates, and a leaf spring bent into a U-shaped configuration for biasing ends of said clamping plates remote from the common shaft towards each other, said leaf spring having a first and second ends, each of said pair of clamping plates having a slot at a position adjacent to the shaft for accommodating said leaf spring passed therethrough, and plurality of grooves formed in an outer surface thereof and spaced at successively greater distances from the shaft, the first end of said leaf spring being fitted into a selected one of the plurality of grooves of one of said pair of clamping

plates, the second end of said leaf spring being fitted into a selected one of the plurality of grooves of the other of said pair of clamping plates.



Compl. specn. 15 pages.

Drgs. 3 sheets

Int. Cl. : F 04 b 39/00; F 04 c 15/00.

164252

#### CENTRIFUGAL COMPRESSOR IMPELLER.

Applicant : PROIZVOISTVENNOE OBEDINENIE "NEVSKY ZAVOD" IMENI V. I. LENINA, OF PROSPEKT OBUKHOVSKOI OBOROY, 51, LENINGRAD, USSR.

Inventors : 1. VLADIMIR VIKTOROVICH ARKHIPOV, 2. GENNADY FEDOROVICH VFLIKANOV, 3. YAKOV SAMUILOVICH LEVIN, 4. VADIM SAFONIVICH MAGDYCHANSKY, 5. GENNADY IVANOVICH PETROV, 6. GILYA AIZIKOVICH RAER, 7. KIR BORISOVICH SARANTSEV.

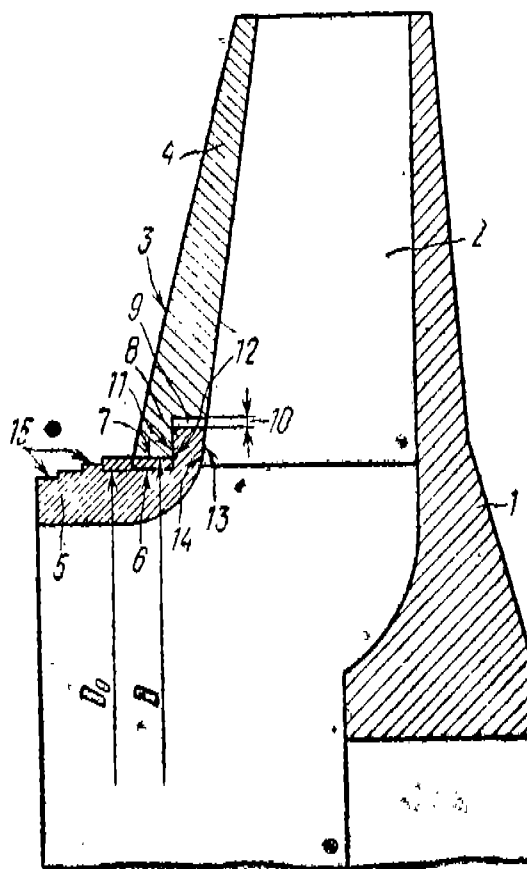
Application No. 553/Cal/86 filed July 22, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 1 Claim

A centrifugal compressor impeller, comprising rigidly connected to one another a main disc, blades and a covering disc which consists of interconnected web to effect gas flow in the impeller and ring to accomodate seals, characterized in that the joint of the web 4 and ring 5 is detachable to form mated surfaces 6 and 7 in the web 4 and ring 5 and has on the mated surface 7 of the ring 5 as viewed from the blades 2 an annular shoulder 8 arranged in an annular groove 9 provided on the mated surface 6 of the web 4 whose internal diameter  $D_0$  is less than diameter  $D$  of the ring 5 along their

mated surfaces 6 and 7 by  $1 \text{ to } 1.5 \times 10^{-3} D_0$ , where  $D_0$  is the internal diameter of the web 4.



Compl. specn. 9 pages

Drg. 1 sheet

CLASS

164253

Int. Cl. : B 2/d 1, 00.

A PROCESS FOR RECOVERING METALLIC CONSTITUENTS FROM SMALL BATTERIES BY MECHANICAL DISINTEGRATION.

Applicant : METALLGESELLSCHAFT AKTEINGESELLSCHAFT, OF REUTERWEG 14, D-6000 FRANKFURT AM MAIN, WEST GERMANY.

Inventors : 1. RUDOLF HENG, 2. WALTER KOCH, 3. HARTMUT PIETSCH.

Application No. 566/Cal/86 filed July 25, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 6 Claims

A process for recovering metallic constituents from small batteries such as are used for radio sets and pocket lamps by mechanical disintegration for separating into different fractions whereby the metal sheath of the small batteries is torn apart by mechanical disintegration and wherein the disintegrated material is treated in a state of motion in an oxidizing atmosphere at  $500 \text{ to } 1000^\circ\text{C}$  and wherein the volatile mercury is recovered from the exhaust gas and the roasted material is separated by a sieving step and magnetic separation into an iron-containing scrap fraction, a brass-containing scrap fraction, and a collectable fraction which contains manganese, zinc and silver.

Compl. specn. 12 pages.

Drg. Nil

Int. Cl. F 16 j 15/00

164254

## ROTATING DRUM END SEAL.

Applicant : COMBUSTION ENGINEERING, INC., OF 1000 PROSPECT HILL ROAD, WINDSOR, CONNECTICUT 06095, U.S.A.

Inventors : 1. PAUL DAVID KRAWCZYK. 2. ALEXANDER BOSSO.

Application No. 719 Cal/86 filed October 1, 1986.

Appropriate office for opposition proceedings (Rule 4. Patents Rules, 1972) Patent Office, Calcutta.

## 4 Claims

A rotary drum particularly for treating ashes discharged from a steam power plant, comprising :

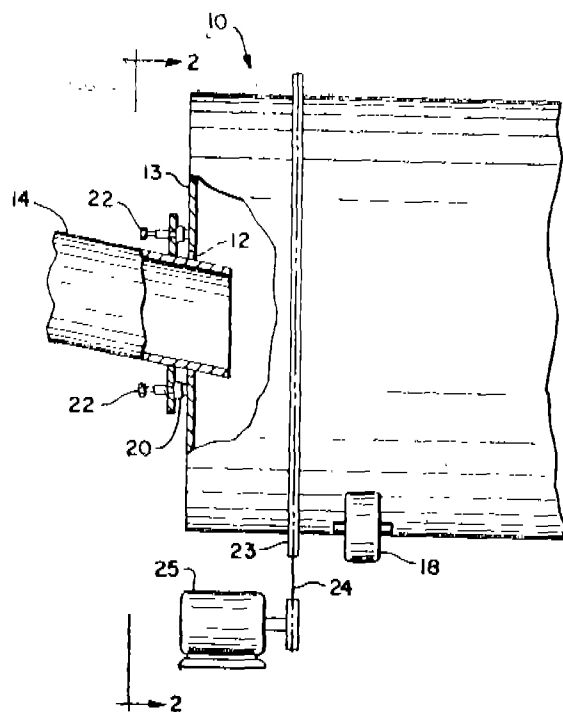
means for rotating the drum about its longitudinal axis;

a stationary duct of extending into an opening in an end wall at one end of the drum, and an end seal for sealing said opening;

said end seal including a plate surrounding the duct and extending perpendicular thereto;

an annular sealing ring surrounding said opening and extending in a sealing manner between the plate and the end wall;

resilient means biasing the said sealing ring into contact with the end wall and adjustable means for varying the force with which the resilient means biases the sealing ring into contact with the end wall.



Compl. specn. 8 pages

Drg. 2 sheets

Int. Cl. : F 02 b 29/00

164255

## A TWO-STROKE INTERNAL COMBUSTION ENGINE WITH MEANS FOR IMPROVING THE SCAVENGING CONDITIONS.

Applicant : DOTT. VITTORIO GILARDONI S.p.A., OF 1, VIA MARCONI, 22054 MANDELLO DEL LARIO (COMO) ITALY.

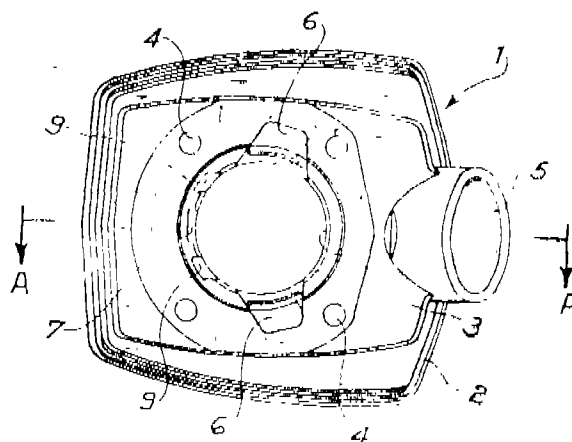
Inventor : 1. UMBERTO PANZERI.

Application No. 721/Cal/76 filed October 1, 1986.

Appropriate office for opposition proceedings (Rule 4. Patents Rules, 1972) Patent Office, Calcutta.

## 7 Claims

A two-stroke internal combustion engine with means for improving the scavenging conditions and eventually the aspiration of fresh gases in the crankcase wherein one or more cavities are provided in the piston/cylinder interface which communicate directly between the interior of the crankcase and the combustion chamber when the piston is near the bottom dead centre position.



Compl. specn. 17 pages

Drg. 6 sheets

CLASS : 98-G

164256

Int. Cl. : F 28 c 3/00.

## HEAT EXCHANGER FOR THE ASSEMBLY OF A CONTACT REACTOR WITH A COMBUSTION HOOD.

Applicant : L & C STEINMULLER GMBH, OF POST-FACT 100855/65, 5270 GUMMERSBACH 1. FEDERAL REPUBLIC OF GERMANY.

Inventors : 1. GUNTHER BECKESCH, 2. HERBERT WECK.

Application No. 723/Cal/86 filed October 3, 1986.

Appropriate office for opposition proceedings (Rule 4. Patents Rules, 1972) Patent Office, Calcutta.

## 9 Claims

A heat exchanger for the assembly with a combustion hood of a contact reactor, in particular a thin film contact reactor, for ammonia combustion, with a pressure container comprising :

a cylindrical jacket section, a bottom section and an outlet nozzle for the product gas;

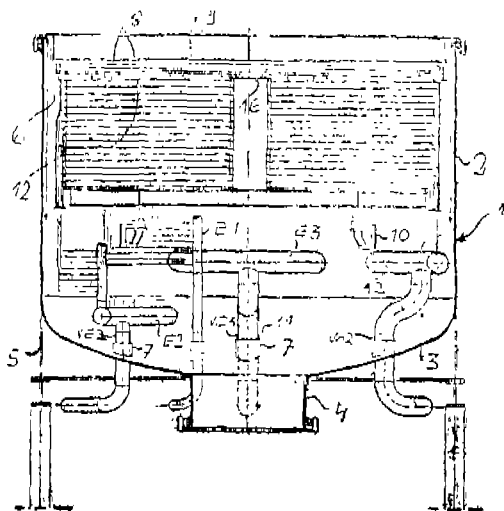
at least one evaporating area and one superheating surface, which are surrounded together by a cylindrical gas-proof lining;

a jacket cooling and with inlet distributors and collectors, as well as connecting pipes extended through the container wall to an external system, in particular the La-Mont system, for the heating areas and the jacket cooling, wherein all the distributors (E1, E2, E3) and collectors (A1, A2, A3) are situated in the pressure container (1) below the heating areas (9.9) and connecting pipes (VE1, VE2, VE3,



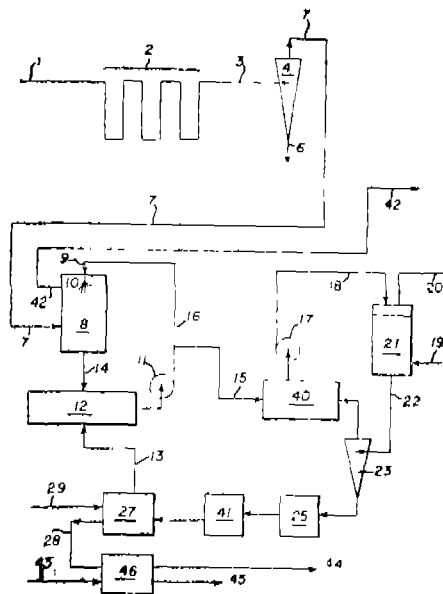
VA1, VA2) are extended parallel to the axis of the pressure container (1) through the bottom section (3).

(f) recycling unreacted components of the eutectic salt mixture to the oxidation zone.



Compl. specn. 15 pages

Drg. 4 sheets



Compl. specn. 28 pages

Drg. 1 sheet

Int. CLASS : B 01 j 10/00

164257

A CONTINUOUS PROCESS FOR ADSORBING FERRIC CHLORIDE FROM A TITANIFEROUS ORE CHLORINATOR EXIT GAS STREAM, AND FOR PRODUCING CHLORINE FROM THE ADSORBED FERRIC CHLORIDE.

Applicant : E.I. DU PONT DE NEMOURS AND COMPANY, AT WILMINGTON, DELAWARE, U.S.A.

Inventor : I. JOHN FREDERICK NAUREK.

Application No. 6/Cal/87 filed January 1, 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 23 Claims

A continuous process for adsorbing ferric chloride from a titaniferous ore chlorinator exit gas stream, and for producing chlorine from the adsorbed ferric chloride, comprising :

- (a) cooling the exit gas stream to a temperature from 300°C to 500°C;
- (b) contacting the cooled exit gas stream with a liquid  $\text{NaCl-FeCl}_3$  eutectic salt complex, at a temperature from 200°C to 350°C, to form a eutectic salt mixture comprising adsorbed  $\text{FeCl}_3$ ;
- (c) separating by known method non adsorbed components of the gas stream from the eutectic salt mixture;
- (d) contacting in a liquid phase oxidation zone, at a temperature from 300°C to 500°C and at a pressure from 500 to 5000 kpa, a molar excess of the eutectic salt mixture with oxygen to produce chlorine;
- (e) withdrawing chlorine from the oxidation zone; and

4-457 GI/88

Int. Cl. : F 02 m 5/00, 9/00

164258

GAS CARBURETION SYSTEM FOR UTILISING LIQUEFIED PETROLEUM GAS (LPG) AS FUEL TO RUN SPARK IGNITION ENGINE.

Applicant & Inventors : AMITAVA DHAR, INDIAN, OF MOTIGUNJ, BONGAON P.O. 24-PARGANAS, WEST BENGAL, PIN-743235, INDIA; BHAWANI SANKAR TRIPATHY, C/O MR. KANDURI CHARAN TRIPATHY OF QRS. NO. 2RA (FLAT) 3/8, UNIT 9, P.O. SAHEED-NAGAR, BHUBANESWAR-751007 (ORISSA) INDIA AND DR. BANKIM BIHARI GHOSH, OF VILL. PUN-NYA, P.O. KESHIADANGA, VIA. KHARAGRAM, DIST. MURSHIDABAD, WEST BENGAL, INDIA.

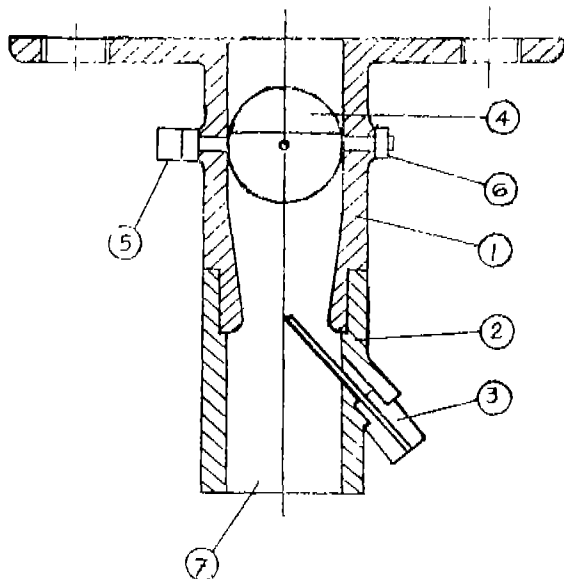
Application No. 211/Cal/87 filed Mach 13, 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 12 Claims

A gas carburetion system for utilising liquefied petroleum gas (LPG) as fuel to run spark ignition engine, comprising a venturi tube having a first inlet for air, a second inlet for introducing LPG as fuel such that the gaseous fuel opens at the throat of the venturi, and an outlet for the air-fuel mixture, so formed, to be introduced into the cylinder(s) of the spark ignition engine, said first inlet being provided with means for maintaining constant amount of LPG flow, as required, and the outlet being provided with means for quantitative control of the air-fuel

mixture, introduced into the engine cylinder(s) depending on the speed requirement of the engine.



Int. Cl. : G 02f 1/29; H 01 s 3/101; G 01 b 164260

Compl. specn. 2 pages.

Drgs. 2 sheets

CLASS : 101-A & F

164259

Int. Cl. : E 02 b 3/00.

A FROND MAT FOR CONTROLLING EROSION OF A RIVER OR SEA BED.

Applicant & Inventor : PETER ALSOP, OF S., GEORGES HOUSE, IVYCHURCH, KENT ENGLAND.

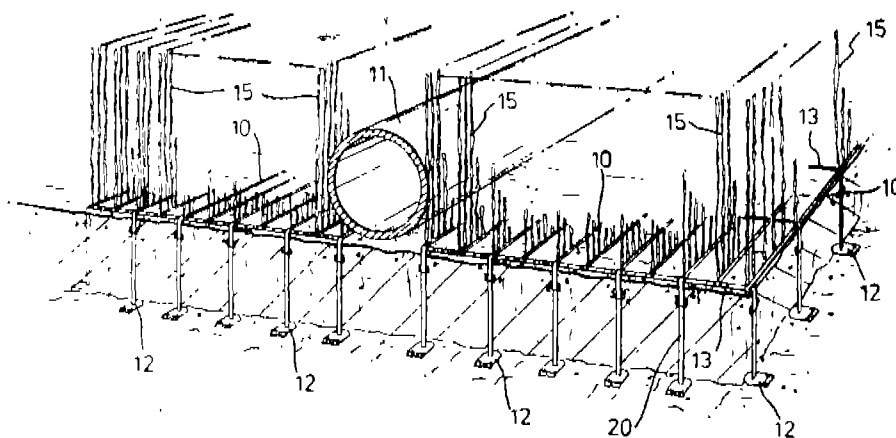
Application No. 28/Cal/88 filed January 13, 1988.

Division of application No. 52/Cal/85 dated 28th January, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims

A frond mat for controlling erosion of a river or sea bed, the mat comprising an array of spaced generally parallel frond lines, each line comprising a substantially continuous curtain of elongate buoyant elements extending transversely in a common direction from a flexible anchor line, a plurality of spaced generally parallel straps disposed transverse to the array of frond lines to provide an open grid mat structure and means for anchoring at least one end of at least one of the lines or straps to the river or sea bed.



Compl. specn. 13 pages

Drg. 5 sheets

Int. Cl. : G 02f 1/29; H 01 s 3/101; G 01 b 164260  
7/00, 11/00.

A SYSTEM FOR DETERMINING THE DEFLECTION OF PRESSURE TRANSDUCER DIAPHRAGMS.

Applicant : THE BABCOCK & WILCOX COMPANY, OF 1010 COMMON STREET, P.O. BOX 60035, NEW ORLEANS, LOUISIANA 70160, U.S.A.

Inventor : 1. JOHN WILLIAM BERTHOLD III.

Application No. 210/Cal/88 filed March 10, 1988.

Division of application No. 100/Cal/85 dated 12th February, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta

8 Claims

A system for determining the deflection of a pressure transducer diaphragm (12), the system comprising a light source (52), means (38) for transmitting light produced by the light source (52) to the diaphragm (12) at a first location thereon, means (46) for transmitting light produced by the light source (52) to the diaphragm (12) at a second location thereon, the first and second locations being radially offset from one another, means (40) for intercepting light reflected from the first location on the diaphragm (12), means (48) for intercepting light reflected from the second location on the diaphragm (12), the light reflected from said first and second locations forming interference fringe patterns at their respective intercepting means (40, 48), and means (54) for counting the interference fringe

patterns to produce a determination as to the deflection of the pressure transducer diaphragm (12).

Int. CLASS 4: F16I, 7/00, 15/00

164262

# PROCESS FOR MANUFACTURING A THREADEDLY INTERCONNECTED PIPE.

Applicant : VALLOUREC, A FRENCH COMPANY, OF 7, PLACE DU CHANCELIER ADENAUER, 75166, PARIS, FRANCE.

Inventors : BERNARD PLAQUIN AND LOUIS FRADIN.

Application for Patent No. 316/Del/85 filed on 16th April, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 2 Claims

A process for manufacturing a threadedly interconnected pipe comprising a pipe element provided with a male element at one end and a pipe element provided with a female element at one end, said pipe elements being adapted to be connected together by screw threadedly joining of said male element and said female element, said male element having a conical threading on its outer surface extending from one end of its said pipe element and terminating in a torque limiting shoulder, said female element having a corresponding internal conical threading on its inner surface extending from one end of its said pipe element and terminating in an internal corresponding torque limiting shoulder characterised by the steps of :

pre-machining the male and the female elements;

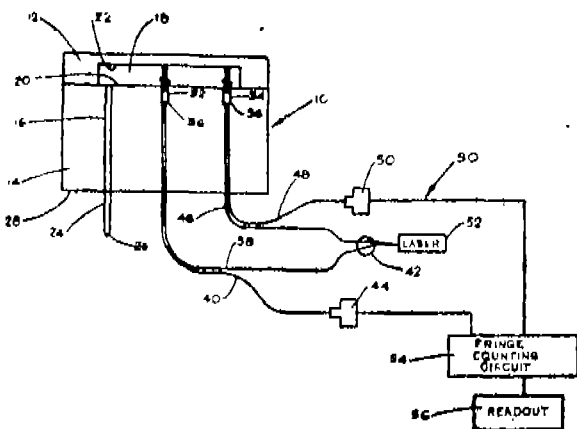
final machining the threadings of the male and of the female element while leaving only the surfaces of the torque limiting shoulders in the rough-machined condition and

work hardening and precisely machining the torque limiting shoulders of the male and female elements to have them located precisely with respect to their threads and each other by :

engaging a male threaded gauge having threadings corresponding to threadings of the female element on said female element and a female threaded gauge having threadings corresponding to those of said male element and marking the position of indexes disposed on the generatrix of the respective gauges on said male and female elements, the position of said indexes being such that when the male and the female gauges are screwed together by hand, said indexes are located on the same generatrix;

screwing with force a male threaded mandrel and a female threaded mandrel into/onto said female element and said male element respectively, said male and said female threaded mandrels having on their ends the shape that the torque limiting shoulders of the male and female elements must finally have, said screwing being effected until respective indexes on the mandrels corresponding to said indexes located on said gauges are positioned at a predetermined distance beyond the marks noted on the male and female elements whereby work hardening of the respective torque limiting shoulders with precise machining with respect to the threads on the respective elements are achieved; and

disengaging said mandrels from said elements and finally screwing said male and female elements together.



Compl. specn. 12 pages

Drg. 1 sheet

Int. CLASS 4: B30B 11/22

164261

## AN EXTRUDER.

Applicant : USM CORPORATION, A CORPORATION DULY ORGANISED AND EXISTING UNDER THE LAWS OF THE STATE OF NEW JERSEY HAVING A PLACE OF BUSINESS AT 426 COLT HIGHWAY, FARMINGTON, CONNECTICUT 06032, UNITED STATES OF AMERICA.

Inventor : HENRY ELLWOOD.

Application for Patent No. 849/Del/84 filed on 5th November, 1984.

Convention date 26-11-83/8331653/(U.K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 10 Claims

An extruder comprising :

a plurality of barrel modules arranged in alignment;

at least two adjacent barrel modules having a plate secured therebetween, the plate having an opening passing therethrough and comprising projections extending into said opening;

the opening of the plate and internal surfaces of the barrel modules forming a substantially continuous passageway which provides an extrusion chamber of a barrel of the extruder; and

a screw in the extrusion chamber having one or more helical flights projecting from a root portion of the screw, the flights being discontinuous and arranged to leave annular spaces between adjacent flights sections into which the projections extend towards the root of the screw.

Compl. specn. 13 pages

Drg. 2 sheets

Compl. specn. 18 pages

Drg. 4 sheets

Int. CLASS 4: B29C 33/38, F16F 1/36 164263

**A METHOD OF TREATING A BODY MADE FROM A COPOLYESTER POLYMER ELASTOMER MATERIAL.**

Applicant : MINER ENTERPRISES, INC. A CORPORATION ORGANISED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, UNITED STATES OF AMERICA, OF 1200 EAST STATE STREET, GENEVA, STATE OF ILLINOIS, UNITED STATES OF AMERICA.

Inventor : DAVID GEORGE ANDERSON.

Application for Patent No. 770/Del/85 filed on 20 September, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 8 Claims

A method of treating a body made from a copolyester polymer elastomer material, comprising the steps of :

using a block of said copolyester polymer elastomer having a selected axial length and transverse shape and further having an initial core opening extending axially substantially through said block, said material and said opening being uniform in cross-sections perpendicular to a central axis, said material having a characteristic such that, upon being axially compressed at least 30% of said initial axial length, the material will permanently retain a substantial portion of the length reduction after being compressed;

applying to said block having said cross-section an axial force sufficient to compress said block at least 30% of its initial length to change the transverse shape of said block such that the configuration of said core opening is permanently expanded transversely outwardly to define sidewalls for the body; and

removing said axial force from said block.

Compl. specn. 21 pages

Drgs. 4 sheets

Int. CLASS 4: C 01 C 1/02 164264

**AN IMPROVED PROCES FOR THE PURIFICATION OF A REFORMED GAS MIXTURE.**

Applicant : UNION CARBIDE CORPORATION, A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF NEW YORK, LOCATED AT: OLD RIDGEBURY ROAD, DANBURY, STATE OF CONNECTICUT 06817. UNITED STATES OF AMERICA.

Inventor : ANDRIJA FUDERER.

Application for Patent No. 937/Del/85 filed on 8th November, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 9 Claims

An improved process for the purification of a reformed gas mixture following water gas shift conversion to produce a purified ammonia synthesis gas stream, the improved processing sequence comprising :

(a) selectively catalytically oxidizing the residual carbon monoxide content of said gas mixture to carbon dioxide.

(b) removing residual carbon dioxide and water by selective adsorption on the fixed beds of a thermal swing adsorption system as herein described,

so that the resulting dry, purified ammonia synthesis gas stream having a low content of methane can be passed to an ammonia production unit without passage of said ammonia synthesis gas stream to a methanation unit, thereby enhancing the overall purification operation and the effective utilization of hydrogen

Compl. specn. 23 pages

Drg. 1 sheet

Int. CLASS 4: F23C 6/00 164265

**A SOLID FUEL BURNER.**

Applicant & Inventor : PAUL DOUGLAS WILLIAMS, OF 2 PARKHILL ROAD, HAUMOANA, NEW ZEALAND, A BRITISH SUBJECT AND NEW ZEALAND CITIZEN.

Application for Patent No. 947/Del/85 filed on 14th November, 1985.

Convention date 19th November, 1984/210243/New Zealand.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 7 Claims

A solid fuel burner having a substantially vertical primary combustion chamber for receiving at its upper end a solid combustible fuel to be gasified and connected at its bottom end with a secondary combustion chamber to receive the gasified fuel from the primary combustion chamber and in which secondary combustion chamber the gasified fuel is further combusted, a substantially conical and vertical extraction zone providing a convergent gas flow path between said bottom end of said primary combustion chamber and said secondary combustion chamber, an apex region of said extraction zone being substantially open and leading into said secondary combustion chamber, an exit for hot gas being provided for said secondary combustion chamber, means for providing a substantially lateral and low velocity gas flow through said fuel at said bottom end of said primary combustion chamber and into said extraction zone where said gas rises substantially vertically in said extraction zone so that the low velocity of said gas combined with gravity separates out and holds back particulate matter entrained in said gas, said convergent gas flow path increasing said gas velocity at said apex region as said gas enters into said secondary chamber.

Compl. specn. 16 pages

Drg. 3 sheets

Int. CLASS 4: H05K 10/00, H02G 15/00 164266

**A CONTACT HOUSING.**

Applicant : AB ELECTRONIC COMPONENTS LIMITED, A BRITISH COMPANY, OF ABERCYNON, MOUNTAIN ASH, MID-GLAMORGAN CF45 4SF, WALES ENGLAND.

Inventor : DAVID DONALD MORGAN.

Application for Patent No. 461/Del/85 filed on 18th November, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 9 Claims

A contact housing (16) including a plurality of contact modules located side by side within the housing, each contact module (1) comprising a body located individually between ribs (17) in said housing in sliding engagement therewith, in which each body has at least one contact (11) received in an individual open-sided groove (2a, 2b) in the body so as to project from the body at one end to make an external connection, the said contact having a distal end for co-operation with a further contact, of another contact housing, the housing including guide tracks (17) to guide the individual bodies in their movement into the housing, in which the individual modules are releasably snapfitted into the housing.

Compl. specn. 14 pages

Drg. 4 sheets

Int. Class<sup>1</sup>: A01N 63/00

164267

### A PROCESS FOR PRODUCING LARVICIDES FOR CULEX AND ANOPHELES MOSQUITOES.

Applicant : THE SECRETARY, NATIONAL BIOTECHNOLOGY BOARD, DEPARTMENT OF SCIENCE AND TECHNOLOGY, OF NEW MEHROULI ROAD, NEW DELHI-110016, INDIA, AN INDIAN NATIONAL.

Inventor : KUNTHALA JAYARAMAN.

Application for Patent No. 1016/Del/85 filed on 2nd Dec, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 4 Claims

A process for producing larvicides (Biocids) for culex and anopheles mosquito larvae comprising the steps of culturing at a temperature of 30°C to 37°C bacterial strain bacillus sphericus 1593 M in nutrient medium such as herein described and extracting proteinaceous (glycopeptide) from the insoluble cell wall fractions of the said bacilli by French pressure lysis or sonication.

Compl. specn. 9 pages

Drg. 1 sheet

Int. Class<sup>1</sup>: F02M 43/04.

164268

### AN IMPROVED DUAL FUEL INJECTION DEVICE FOR GAS TURBINE COMBUSTION CHAMBER AND A GAS TURBINE ENGINE FITTED WITH THE SAID FUEL INJECTOR.

Applicant : COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH, RAJI MARG, NEW DELHI-110001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventor : BHASKAR RAMCHANDRA PAI.

Application for Patent No. 1054/Del/85 filed on 12th December, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 5 Claims

An improved dual fuel injection device for gas turbine combustion chamber which comprises a fuel gun (1) with a gaseous fuel inlet (2) a liquid fuel pipe (5) together with the spreader pintle being fixed with the gaseous fuel pipe (3), the spreader pintle being located within the liquid fuel pipe with a gap between the end of the liquid fuel pipe and the shoulder of the spreader pintle, the spreader pintle having a cylindrical stem the stem having one or more flat surfaces and terminating in a curved shoulder the liquid fuel pipe together with the spreader pintle (6) leading to a mixing tube (8) and a discharge aperture (9) the aperture protruding through a hub (35) of a swirler (14) of the combustion chamber (18).

Compl. specn. 9 pages.

Drg. 4 sheets

Int. Class<sup>1</sup>: B43K 5/00, 7/00.

164269

### IMPROVEMENTS IN OR RELATING TO FOUNTAIN PEN/BALL PEN.

Applicant & Inventors : SANJIV KAPOOR AND PRAVEEN KAPOOR, BOTH INDIAN CITIZENS OF 194, SATYA NIKITAN, NEW DELHI-110 021.

Application for Patent No. 1109/Del/85 filed on 26th Dec., 1985.

Complete Specification left on 26th December, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 3 Claims

The fountain pen/ball pen comprising of a plunger unit fixed in a tip unit, the said tip unit holding a ball at one end, the plunger unit having a passage for the ink from the reservoir to the ball, the said tip unit and the plunger unit constituting a nib unit, the plunger unit and tip unit being threadedly connected with each other so that a gap is provided between the ball and the plunger unit wherein the said gap being adjustable depending on the type of ink used or the quantity of ink required.

Compl. specn. 5 pages.

Drg. 1 sheet

Int. Class<sup>1</sup>: C23F 11/167.

164270

### IMPROVEMENTS IN OR RELATING TO A PROCESS FOR THE PREPARATION OF CORROSION/SCALE INHIBITORS SUITABLE FOR PREVENTION OF METALLIC CORROSION AND SCALE FORMATION IN SYSTEMS USING DIFFERENT GRADES OF WATERS.

Applicant : COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH, RAJI MARG, NEW DELHI-110001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventors :INDER SINGH and VISHWANATH ANANT ALTEKAR.

Application for Patent No. 1118/Del/85 filed on 30th December, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 12 Claims

A process for the preparation of an inhibitor suitable for inhibition of corrosion and scale formation in system using different grades of water which process comprises adding an alkylene polyphosphonic acid of the general formula  $(R_1R_2C)mP_2H_4O_6$  where m is an integer from 1-10,  $R_1$  is hydrogen, or an alkyl group having 1-4 carbon atoms,  $R_2$  is hydroxyl, hydrogen or alkyl having 1-4 carbon atoms and their water soluble salt s and esters or mixtures thereof and an amino alkylene polyphosphonic acid of the general formula  $C_{1-10}H_{8-14}P_{2-5}O_{6-9}N_{1-5}$  and their water soluble salts and esters or mixtures thereof to an azole compound under constant stirring at a temperature of 30-60°C and adding to the resultant solution a polyphosphate of the general formula  $(MP_{1-2}O_3-7)_m$  where M is hydrogen or alkali metal ions and m is an integer 1-6 and chloride or sulphatic salts of magnesium zinc, calcium with continuous stirring.

Compl. specn. 8 pages.

Int. Class<sup>1</sup>: C08K 3/32; 5/16; 5/09.

164271

PROCESS FOR THE PREPARATION OF A STABILIZER TO INHIBIT AUTOCATALYTIC DECOMPOSITION OF HYDROGEN PEROXIDE ADDED IN PICKLING BATHS OF COPPER AND COPPER BASED ALLOYS.

Applicant : COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH, RAJ MARG, NEW DELHI-110001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventor : DEVENDRA DEO NARAIN SINGH.

Application for Patent No. 1123/Del/85 filed on 31 December, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 12 Claims

A process for the preparation of stabilizer to inhibit the auto catalytic decomposition of hydrogen peroxide added in pickling baths of copper and copper based alloys which comprises reacting phosphorous trichloride with an excess of glacial acetic acid, steam distilling the reaction product, adding dropwise an amine such as hereindescribed dissolving the product obtained in an equal amount of an acetal such as hereindescribed under constant stirring and the resulting solution is blended with an azole compound.

Compl. specn. 10 pages.

Int. Class<sup>1</sup>: F16D 13/00.

164272

IMPROVEMENTS IN OR RELATING TO CLUTCH FACINGS.

Applicant : FERODO LIMITED, A COMPANY ORGANISED UNDER THE LAWS OF GREAT BRITAIN, OF 20 ST. MARY'S PARSONAGE, MANCHESTER M3 2NT, ENGLAND.

Inventor : ROY GEOFFREY EAST.

Application for Patent No. 1108/Del/85 filed on 24th December, 1985.

Convention date 11-01-85/8500743 (G.B.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 9 Claims

A moulded annular clutch facing (as hereinbefore defined) having a plurality of surface grooves wherein each groove is moulded into the facing, each groove extends across not substantially more than half of the width of the annulus, each groove is not greater in depth than 40% of the thickness of the facing and grooves are arranged extending from the bore and the outside perimeter of the annulus.

Compl. specn. 6 pages.

Drg. 1 sheet

Int. Class<sup>1</sup>: E04C 1/00, 1/30.

164273

MORTARLESS HOLLOW CONCRETE BLOCK.

Applicant & Inventor : JITENDER GUPTA OF 1/190, CIVIL LINES, GURGAON-122001, INDIA, AN INDIAN NATIONAL.

Application for Patent No. 932/Del/85 filed on 8th November, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 1 Claim

A mortarless hollow concrete block having double square portions from within the base, raised square projection on the top, and rebates down each side of the block such as herein described.

Compl. specn. 4 pages.

Drg. 1 sheet

Int. Class<sup>1</sup>: C22B 23/04.

164274

AN IMPROVED PROCESS FOR THE EXTRACTION OF NICKEL FROM LATERITIC NICKEL ORES.

Applicant : COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH, RAJ MARG, NEW DELHI-110001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventors : LALA BEHARI SUKLA AND RADHANATH PRASAD DAS.

Application for Patent No. 916/Del/85 filed on 31st December, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 4 Claims

An improved process for the extraction of nickel from lateritic nickel ore by roasting the ore and leaching characterised in that the lateritic nickel ore containing Ni 1.12% and Co 0.03% is roasted in air by heating at a temperature in the range of 100-800°C under atmospheric pressure in the absence of a reducing agent, leaching the roasted ore in dilute sulfuric acid of strength ranging from 1.82 to 4N at a temperature in the range of 65-95°C to obtain nickel sulphate solution and nickel is recovered by known methods.

Compl. specn. 9 pages.

Int. Class<sup>4</sup> : C10N 20; 02

164275

6 Claims

A CRUDE OIL-ADDITIVE COMPOSITION FOR INHIBITING THE DEPOSITION OF PARAFFINS AND FOR IMPROVING THE FLOW PROPERTIES OF SAID CRUDE OIL.

Applicant : SOCIETE NATIONALE ELF AQUITAINE, A FRENCH COMPANY OF TOUR ELF, 2, PLACE E LACONPOLE LA DEFENCE 6, 92400 COURBEVOIE, FRANCE; AND CECA S.A., A FRENCH COMPANY OF, 11 AVENUE MORANE SAULNIER, 78240 VELIZY VILLACOUBLAY, FRANCE.

Inventors : GILLES, MEUNIER, RENE BROUARD, BERNARD DAMIN and DENIS LOPEZ.

Application for Patent No. 876/Del/85 filed on 18th October, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patents Office Branch, New Delhi-110005.

## 13 Claims

A crude oil-additive composition for inhibiting the deposition of paraffins and for improving the flow properties of said crude oil which comprises a mixture of crude oil and 5 to 4000 ppm by weight of a grafted copolymer formed by trunk formed from an ethylene copolymer and at least one monomer with ethylenic unsaturation chosen from the group formed by:

- vinyl esters of  $C_2$  to  $C_{18}$  monocarboxylic acids,
- the alkyl esters in the range  $C_1$  to  $C_{12}$  of unsaturated monocarboxylic acids in the range  $C_3$  to  $C_{12}$ ,

—the  $\alpha\beta$ , —unsaturated dicarboxylic compounds in the form

of diacid, alkyl diester in the range  $C_1$  to  $C_{12}$  or anhydride, on which are fixed grafts of a homo or copolymer of an  $\alpha\beta$ -unsaturated monocarboxylic acid ester with at least one alcohol of a chain length equal to or greater than  $C_{12}$  and 20% at least of which is of a chain length equal to or greater than  $C_{22}$ , the trunk representing 5 to 95% by weight of the grafted copolymer.

Compl. specn. 20 pages.

Drg. 1 sheet

Int. Class<sup>4</sup> : G 08 B 13/00.

164276

## PORTABLE BURGLAR ALARM.

Applicant & Inventor : GURJIT AHLUWALIA SINGH, A CANADIAN CITIZEN, OF 2310 DELISLE STREET, MONTREAL, PROVINCE OF QUEBEC H3J 2N2, CANADA.

Application for Patent No. 809/Del/85 filed on 3rd October, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

A portable burglar alarm comprising :

in combination, an electro-mechanical switch, at least one cord, and a cord-retain-member;

said switch including a rigid base, a casing having side walls and a cover plate, being rigidly secured to said base;

one of said side walls being provided with at least one electrical plug;

the interior area of said casing having formed therein a first slot and a second slot;

intersecting said first slot substantially at a right angle, both said slots having an outer end and an inner end;

said first slot having slidably mounted therein a cock member;

a flexible tie member secured at one end to said cock member and projecting out of said casing the other end of the tie member being secured to a rigid pull means said tie member having slidably mounted therein a trigger member;

the trigger member being secured to a rigid pull means said

a second flexible tie member secured at one end to said trigger member and projecting outside of said casing, the opposite end of said second tie member being secured to a second rigid tie member;

both said trigger member and said cock member being provided with an inward biasing means consisting of springs (33, 34);

said switch further including two transversely-spaced electrical switch terminals (23, 24) connected to wires (13, 12) and in series connected to said electrical plug;

said terminals normally open and being disposed in registry with the inner end of said first slot;

cord-retaining member installed on window panes, being attachable to an object to be protected in a building;

said cord being tensionably secured between said tie means of said trigger member and said cord-retaining member, whereby any effort against the latter will affect the tension of said cord, displacing said trigger member and allowing said cock member to move through either one of said gates and about one of said terminals to close the electric circuit of said switch;

said electrical plug being connectable to an electrically-actuated alarm means.

Compl. specn. 11 pages.

Drgs. 5 sheets

Int. Class<sup>4</sup> : C 08 F 220/32.

164277

## A PROCESS FOR THE PRODUCTION OF NOVOLAC EPOXY RESIN.

Applicant : BHARAT HEAVY ELECTRICALS LIMITED, CORPORATE RESEARCH & DEVELOPMENT, OF 18-20, KASTURBA GANDHI MARG, NEW DELHI-110001, INDIA.

Inventors : PARINAM RAGHU RAM KUMAR, LAKSHMINARAYANAPURAM RAMASWAMY VENKATESWARAN AND GODAVARMA MURALIDHARAN.

Application for Patent No. 728/Del/85 filed on 3rd September, 85.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110001.

## 9 Claims

A process for the preparation of novolac epoxy resin which comprises subjecting novolac resin to epoxidation using epichlorohydrin and alkali, followed by dehydrochlorination of the epoxidised product characterised by the improvement wherein the epoxidation is carried out in two stages, wherein the first stage is carried out in aqueous medium using more than half the required quantity of alkali and wherein the second stage is carried out in aqueous or alcohol medium with the remaining quantity of alkali.

Compl. specn. 10 pages.

Int. Cl.<sup>4</sup>: B 29 D 30/20

164278

Int. Cl.<sup>4</sup>: B 29 D 30/20.

### A ROTATABLE TIRE BUILDING APPARATUS.

Applicant: THE B. F. GOODRICH COMPANY, A NEW YORK CORPORATION, OF 500 SOUTH MAIN STREET, AKRON, OHIO 44318, UNITED STATES OF AMERICA.

Inventor: CLIFFORD ALLEN LANDSNESS.

Application for Patent No. 690/Del/85 filed on 21st August, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 5 Claims

A rotatable tire building apparatus comprising:

- a central shaft defining an axis of rotation of the tire building apparatus;
- a generally cylindrical, rotatable, radially expandable and retractable drum;
- means attaching said drum to said central shaft;
- a cylindrical rotatable bead carrier assembly at each end of said drum;
- means attaching each bead carrier assembly to said central shaft;
- a rubber sleeve enveloping said drum and said bead carrier assemblies;
- a radially movable bead ring locating means located on each bead carrier assembly;
- characterised by a bearing means connecting each bead carrier assembly to said drum, said bearing means being responsive to said drum expansion and retraction to allow axial movement of said bead carrier assemblies to and from the drum; and

motion imparting means comprising inflatable bladders and linkage means movable in response to the inflation of said bladder to move said bead ring locating means into operative association with bead rings, said linkage means comprising arms pivotally attached at first ends with respect to said bead carrier assemblies and pivotally attached at second ends with respect to said bead ring locating means.

Compl. specn. 13 pages.

Drg. 3 sheets

Int. Cl.<sup>4</sup>: F 21 M, 3/02.

164279

### HEADLIGHT FOR MOTOR VEHICLES.

Applicant: PIAGGIO & C.S.P.A., A COMPANY ORGANISED UNDER LAW OF THE ITALIAN REPUBLIC OF VIA A. CECCHI, 6-GENOVA, ITALY.

Inventor: GIACOMO MONTANO.

Application for Patent No. 522/Del/85 filed on 2nd July, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 4 Claims

A headlight for a motor vehicle having reduced overall depth and provided with a reflector a section which through its central bulb aperture constitutes a parabola wherein that segment of the reflector which, when the headlight is mounted, lies in a horizontal plane comprises at least a first or outer paraboloid and a second or inner paraboloid having the same centre of curvature as the first and spaced from said first paraboloid by means of oppositely disposed intermediate connecting sections, each of said paraboloids having symmetrical segments on opposite sides of the headlight bulb and identical focal points which coincide with the centre of said bulb whereby light reflected by the inner paraboloid lies within the boundaries of light reflected by the outer paraboloid thus ensuring the desired directional light flux characteristics in said horizontal plane.

Compl. specn. 8 pages.

Drg. 1 sheet

Int. Cl.<sup>4</sup>: B 28 B 3/20

164280

### METHOD OF MANUFACTURING LIGHTWEIGHT STRUCTURAL PROFILE.

Applicant & Inventor: MICHAEL JOHN HEWITT A BRITISH SUBJECT, OF 5 HAYLING CRESCENT, LEISESTER, LE5 0RH, ENGLAND.

Application for Patent No. 474/Del/85 filed on 13th June, 1985.

Convention date June 22, 1984 & May 9, 1985/8416026 & 8511762/(U.K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 11 Claims

A method of manufacturing lightweight structural profile (as hereinbefore defined) in which a core comprising closely compacted and bonded particulate filler (as hereinbefore defined) is formed in passage through a shaping die, the method comprising sucking loose particulate filler into the shaping die to pack the filler within the die, causing a bonding resin to permeate the packed filler and progressing the packed filler through the die to become bonded by the resin information of the core.

Comp. specn. 15 pages

Drg. 3 sheets

Int. Cl.<sup>4</sup>: H 02 J 7/02.

164281

### IMPROVED CHARGING SET FOR THE REGENERATIVE RECHARGING OF DRY BATTERIES.

Applicant & Inventors: OTTO MALLASZ OF 1132 BUDAPEST, VISEGRADI U. 33/B, HUNGARY, AND TIBOR MALLASZ OF 1068 BUDAPEST, MAJAKOVSKIJ U. 56, HUNGARY, BOTH HUNGARY, BOTH HUNGARIAN CITIZENS.



Patent Application No. 154/Mas/85 filed February 22, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

#### 9 Claims

An improved charging set for the regenerative recharging of dry batteries, said charging set consisting of a hollow casing (1) made of any suitable insulating material and having a pair of mains contact pins (21, 22) held in predetermined standard spaced relationship by a pin plug (2) that is substantially integral with said casing (1), said pin plug (2) preferably being of the kind applicable to any of standardized mains sockets, thus also to earthed sockets by being provided with an insulated distance shaft (20) of suitable cross-sectional shape and protruding length, said casing (1) comprising a compartment (13) laid out in size and shape for removably receiving at least one dry battery of normal standardized type for the purpose of recharging, said casing (1) also comprising, adjusted to said compartment (13), at least partially spring-biased or spring-like naked electric contactors (30) in an arrangement matching that of the pole terminals of the particular type(s) of dry batteries for which the set is laid out, and said charging set further consisting of a charging rectifier comprising current-limiting and rectifying circuit elements that are connected, between said mains contact pins (21, 22), in series with said naked connectors (30) to which the dry battery to be recharged is electrically connected upon its insertion in said compartment (13) of said casing (1), said charging rectifier comprising at least one current-limiting resistance (31) and at least one rectifying diode (32) that are connected in series, between said mains contact pins (21, 22), and said naked connectors (30) matching and electrically contactable with the pole terminals of the at least one dry battery to be recharged and said casing (1).

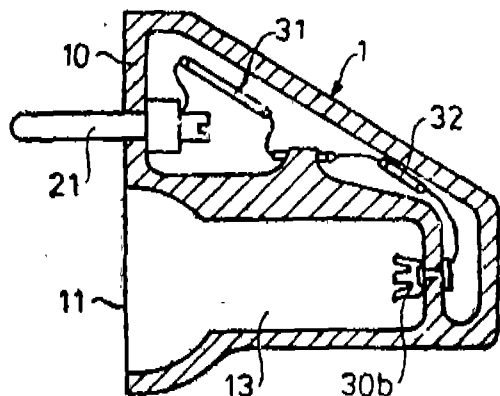


Fig 1

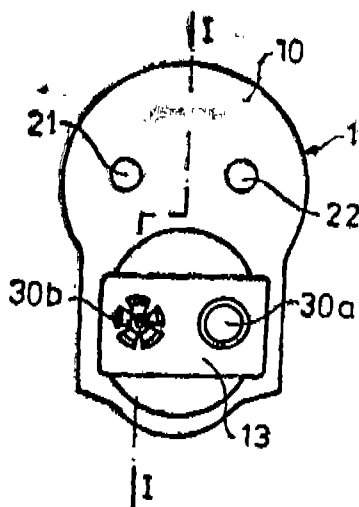


Fig. 2

Compl. specn. 20 pages.  
3-457 GI/88

Drgs. 3 sheets

Int. Cl.<sup>4</sup> : C 02 F 3/10.

164282

#### PACKING FOR USE IN WASTE WATER TREATMENT PROCESSES AND A METHOD OF MANUFACTURING THE SAME.

Applicant : KAVERI ENGINEERING INDUSTRIES LTD. GOLDEN ROCK, TIRUCHIRAPPALLI 620 004, TAMIL NADU, INDIA, A COMPANY DULY ORGANISED AND EXISTING UNDER THE LAWS OF THE UNION OF INDIA.

Inventors : MALCOLM Lisle HEMMING; JOHN LUNT.  
Application No. 162/Mas/85 filed 27 February 1985

Appropriate office for opposition proceeding (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

#### 8 Claims

Packing for use in waste water treatment processes comprising sheets of alternate flat and corrugated sections of polymeric material, said sections being assembled by bonding the peaks and troughs of the corrugated sheets to the flat sheets to form an open structure for flow of waste water, with minimum pressure drop, therethrough.

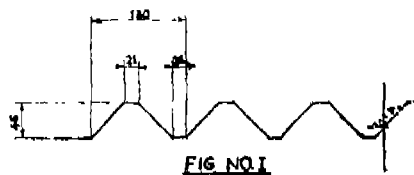


FIG. NO. I

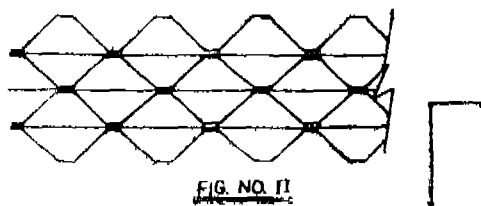


FIG. NO. II

Compl. specn. 11 pages.

Drg. 1 sheet

164283

Int. Cl.<sup>4</sup> : B 02 C 18/40, 23/08.

#### APPARATUS FOR PULVERIZING AND SORTING MUNICIPAL REFUSE.

Applicant : EBARA CORPORATION, OF 11-1, HANEDA ASAHI-CHO, OTA-KU, TOKYO, JAPAN, A JAPANESE BODY CORPORATE.

Inventor : YOSHIO HIRAYAMA; MASAO NOMOTO; TOMOYUKI SHIINA.

Application No. 172/Mas/85 filed 6 March 1985.

#### 6 Claims

An apparatus for pulverizing and sorting municipal waste comprising :

- a stationary intake casing having an intake opening;
- a stationary discharge casing having a discharge opening;

a rotatable cylindrical screen having ridge projections axially disposed on the inner surface of the screen and

being adapted to communicate at opposite ends thereof with said intake opening and said discharge opening, respectively;

a stationary cover casing covering said cylindrical screen at the place between said intake and discharge casings and accompanied by a chute at the lower side thereof;

a rotatable shaft axially extending through said cylindrical screen provided with anti-entangling plates radially mounted on the shaft and scraper blades mounted on the edge of said anti-entangling plates, the radial end tips of said scraper blades being spaced from said ridge projections with clearance there between such as to allow the scraper blades and said cylindrical screen to make relative rotation therebetween; and

drive means for causing said relative rotation, said apparatus being characterized in that sealing brush means for preventing the escape of dust and pulverized waste from the apparatus to the outside thereof through gaps between fixed portions and movable portions of the apparatus are respectively provided at the gap between said intake casing and said cylindrical screen, the gaps between said discharge casing and said cylindrical screen, the gaps between said cover casing and said cylindrical screen and the gaps between said chute and said cylindrical screen.

Fig. 3(a)

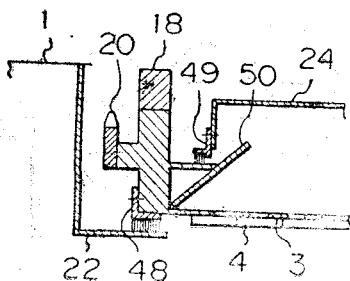
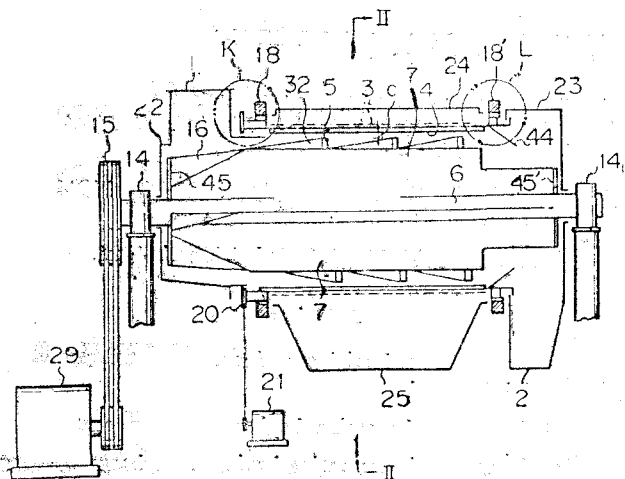


Fig.



Int. Cl. : E 01 B 11/00.

164285

A NOISELESS RAILWAY TRACK.

Applicant & Inventor : KOTHAPALI VENKATA SURYA TIRUPATHI RAJU, B. A., LL.B., H. NO. 8-3-224/9 MADHURANAGAR, HYDRABAD 500 045, ANDHRA PRADESH, INDIA, INDIAN NATIONAL.

Application No. 267/Mas/85 filed April 6, 1985.

4 Claims

A noiseless railway track comprising two track members the jointing ends of which are cut away along their length and of their sides to taper downwardly from the main bodies of the respective members, thus permitting the uncut portions of the main bodies to respectively butt against the jointing ends, leaving gaps for thermal expansion, while also permitting the jointing ends to be simultaneously juxtaposed laterally

164284

Int. Cl. : C 10 B 21/00.

APPARATUS FOR THE GASIFICATION OF A PULVERIZED SOLID FUEL.

Applicant : SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B. V., CAREL VAN BYLANDT LAAN 30, 2596 HR THE HAGUE - THE NETHERLANDS. A NETHERLANDS COMPANY.

Inventor : MAARTEN JOHANNES VAN DER BURGT.

Application No. 188/Mas/85 filed March 14, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents, Rules, 1972) Patent Office, Madras Branch.

9 Claims

Apparatus for the gasification of a pulverized solid fuel, comprising a gasification reactor (1) with at least one pair of burners (2) (102) arranged opposite to each other in the side wall of the reactor, and at least one fuel supply (7) with fuel lines (3) (103) to the burners, wherein the fuel lines which are connected with the burners of one pair, are symmetrical and originate from one common fuel supply.

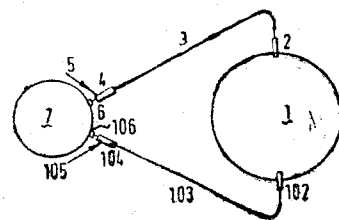


Fig 1

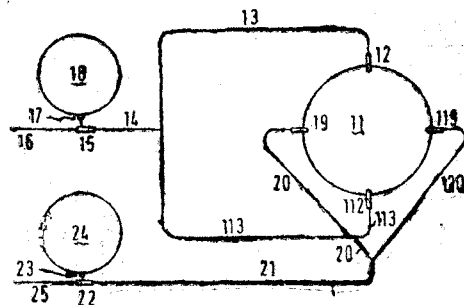


Fig. 2

Compl. specn. 11 pages.

Drg. 1 sheet

Int. Cl. : E 01 B 11/00.

164285

A NOISELESS RAILWAY TRACK.

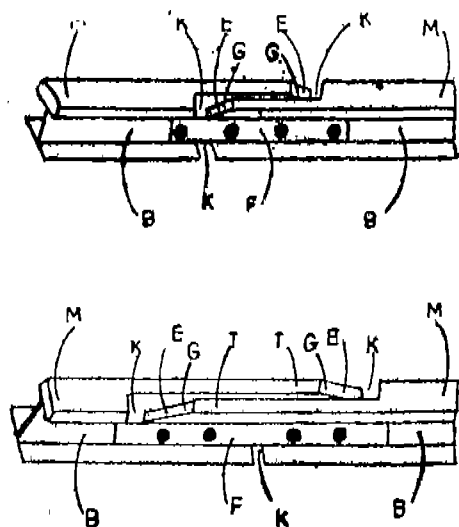
Applicant & Inventor : KOTHAPALI VENKATA SURYA TIRUPATHI RAJU, B. A., LL.B., H. NO. 8-3-224/9 MADHURANAGAR, HYDRABAD 500 045, ANDHRA PRADESH, INDIA, INDIAN NATIONAL.

Application No. 267/Mas/85 filed April 6, 1985.

4 Claims

A noiseless railway track comprising two track members the jointing ends of which are cut away along their length and of their sides to taper downwardly from the main bodies of the respective members, thus permitting the uncut portions of the main bodies to respectively butt against the jointing ends, leaving gaps for thermal expansion, while also permitting the jointing ends to be simultaneously juxtaposed laterally

to form opposed sloping surfaces allowing smooth transition of the wheels of railroad vehicles from one track member to the other, the laterally juxtaposed joining ends of the main bodies of the track members being jointed and supported by fishplates.



Compl. specn. 7 pages.

Drg. 1 sheet

164286

Int. Cl.<sup>4</sup> : C 14 C 3/00.

#### A METHOD OF TANNING ANIMAL SKINS AND HIDES.

Applicant : ALCAN INTERNATIONAL LIMITED, OF 11-88 SHERBROOKE STREET WEST, MONTREAL, QUEBEC, CANADA H3A 3G2, A CANADIAN COMPANY.

Inventor : DAVID JOHN RANDALL.

Application No. 275/Mas/85 filed 10 April 1985.

Convention dated 10th April 1984 (No.: 8409266; Great Britain).

Appropriate office for opposition proceedings Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

8 Claims

A method of tanning animal skins and hides which comprises treating the skin or hide with an aqueous solution of a chromium compound, characterised in that a reactive alumina hydrate is added to the said solution in an amount to increase the pH of the solution to a value not exceeding 4.5.

Compl. specn. 24 pages.

Drg. Nil

164287

Int. Cl.<sup>4</sup> : H 04 L 11/02.

#### AN APPARATUS FOR CONNECTING A FIRST PBX OR PABX COMMUNICATIONS SWITCHING SYSTEM TO A SECOND PBX OR PABX COMMUNICATIONS SWITCHING SYSTEM.

Applicant : ALCATEL N.V. A DUTCH COMPANY, OF DE LAIRESSESestraat, 153, NL-1075 HK, AMSTERDAM, HOLLAND.

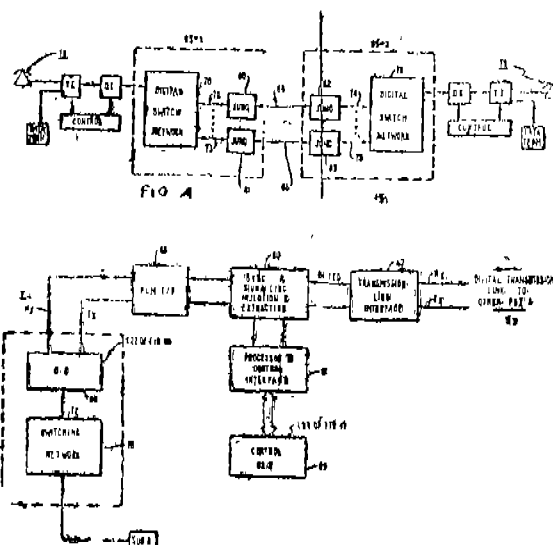
Inventors : SANTANU DAS; FRANCISCO AUTURO MIDDLETON; NICHOLAS JOHN ROBERT CARTER.

Application No. 290/Mas/85 filed 16 April 1985.

Appropriate office for opposition proceedings Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

7 Claims

An apparatus for connecting a first PBX or PABX communications switching system to a second PBX or PABX communications switching system to enable an increase in subscriber line capacity, each of the systems being associated with a separate switching network, each of the switching networks having ports for coupling to subscriber terminals, and each of the ports in each of the networks being represented by a code number, with the code numbers in the first system different from the code numbers in the second system so that any port in the first system can be connected to any other port by dialling the code number of the other port and where any port in the second system can be connected to any other port by dialling the code number of the other port, comprising a first junctor including a processor and having an input connected to a port of the first switching system and an output for bidirectional transmission, a second junctor including a processor and having an input connected to a port of the second switching system and an output for bidirectional transmission, means for coupling the output of the first junctor to the output of the second junctor to enable bidirectional transmission between the ports and therefore between the first and second switching system, processing means located at the first and second switching systems and operative to provide an output when any code number is dialled from a port in one of the systems which is not indicative of another port within the same system, and means responsive to the output for connecting the dialling port to the junctor port associated with the switching system of the dialling port to cause the dialled code number to be transmitted via the connection to the other junctor, the other junctor passing the dialled code number to its associated switching system for establishing a connection to the port corresponding to the dialled code number, whereby a connection is made from the dialling port to dialled port without the need for any special signalling to make the connection from the first to the second switching system.



Compl. specn. 25 pages.

Drgs. 3 sheets

164288

Int. Cl.<sup>4</sup> : G 03 C 5/12.

#### A METHOD OF PRODUCING A POSITIVE MOTION PICTURE FILM WITH IMAGE OF SQUEEZED VERTICALLY AND THE FILM SO PRODUCED.

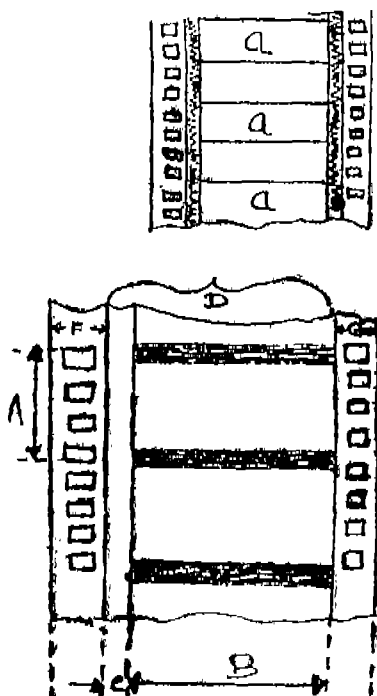
Applicant & Inventor : CHINNASAMY RAMACHANDRAN, C/O. C. DAMODARAN, H. 3 POLICE QUARTERS, RAJA ANNAMALAI PURAM, MADRAS-600 028, INDIA, AN INDIAN NATIONAL.

Application No. 291/Mas/85 filed April 17, 1985.

Appropriate office for opposition proceedings Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

### 3 Claims

A method of producing a positive motion picture film with images squeezed vertically to about half the size from a conventional negative film, comprising the steps of preparing the positive film from the said negative with a film printer having a mask to reduce the aperture width by half of the standard size and to mask two of the four perforation of the positive to be printed, said printer having an anamorphic lens placed at an angle of about 90 degrees rotational deviation from the conventional position so as to vertically squeeze the image on each frame of said negative roll to about half while printing the positive therefrom, printing the first message on the alternate half size frames in the conventional manner with the other half frames being masked, subsequently printing a second message on the unexposed half frames of the roll from the opposite end, the first and the second messages being non-consecutive upon said roll in the reverse order.



Compl. specn. 10 pages.

Drgs. 3 sheets

164289

Int. Cl.<sup>3</sup> : B 65 D 55/12; 43/10.

### TAMPER INDICATING CHILD-RESISTANT PACKAGE.

Applicant : OWNES-ILLINOIS CLOSURE INC., OF ONE SEAGATE, TOLEDO, OHIO 43666, U.S.A., A U.S.A. COMPANY.

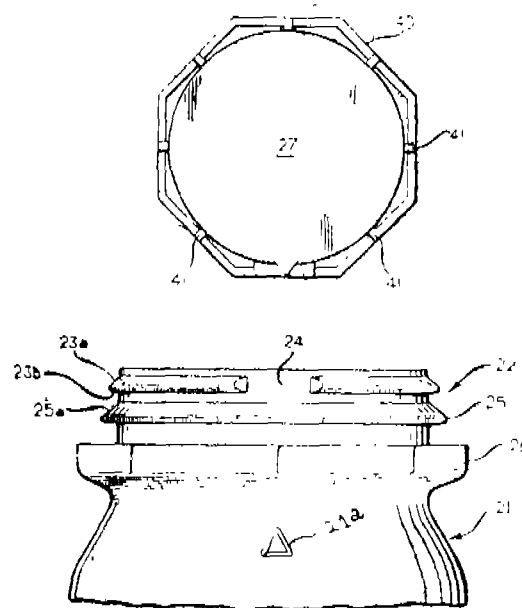
Inventor : MAXIMILLIAN KUSZ.

Application No. 327/Mas/85 filed April 29, 1985.

Appropriate office for opposition proceedings Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

### 7 Claims

A temper indicating child-resistant package comprising a container having a body and a neck, said neck having at least one retaining bead with a notch therein and a closure comprising a base wall and a peripheral wall, said peripheral wall having at least one pair of locking lugs generally diametrically opposite to one another such that the closure can be rotated to orient one of the locking lugs with the notch on the container permitting the closure to be removed by an upward force in the area of the notch to produce a tipping movement, said peripheral wall of said closure having an axially extending band connected to the lower end of the peripheral wall by a weakened line, said band having an inner regular polygonal surface, said container having a portion at the area of juncture of the neck and body with an external polygonal surface complementary to the polygonal configuration on the interior of the band such that the closure must be applied with the lug in unoriented position to the notch by an axial movement with the lug snapping over the retaining bead, bringing the polygonal configuration of the band into engagement with the polygonal configuration of the shoulder on the container such that the closure cannot be rotated without breaking the band along the weakened line.



Compl. specn. 12 pages.

Drgs. 2 sheets

164290

Int. Cl.<sup>3</sup> : B 05 B 1/06.

### A DEVICE FOR ACCELERATING SOLID PARTICLES IN A CARRIER GAS THROUGH A DUCT.

Applicant : ARBED S. A., OF AVENUE DE LA LIBERTE, L-2930 LUXEMBOURG, GRAND-DUCHY OF LUXEMBOURG, A LUXEMBOURG COMPANY.

Inventor : ANDRE BOCK.

Application No. 353/Mas/85 filed May 8, 1985.

Appropriate office for opposition proceedings Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

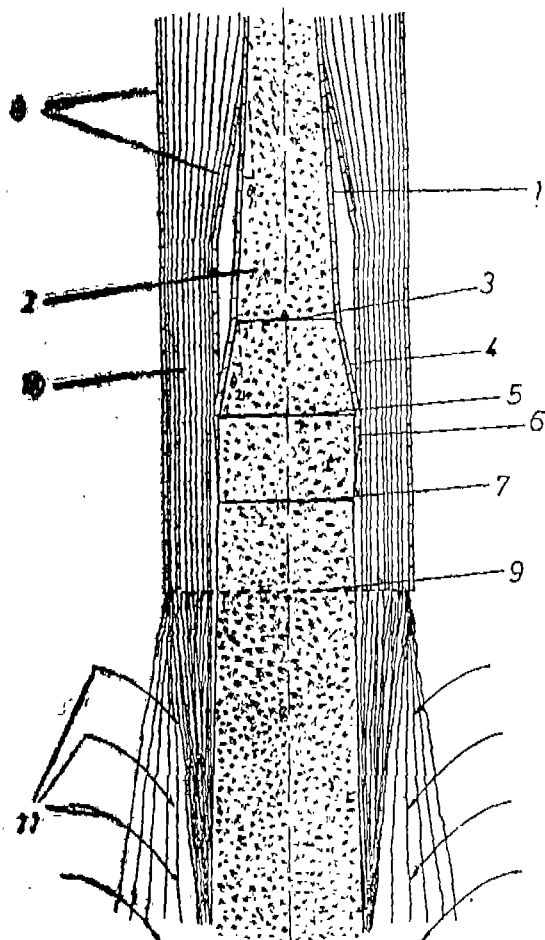
### 20 Claims

A device for accelerating solid particles entrained in a carrier gas through a duct comprising :

an exit section (terminating at a first opening in said duct, said exit section diverging at a first angle and defin-

ing a first nozzle, said first nozzle adapted to be connected to a source of gas and solid particles; and

a nozzle extension attached to said first opening and terminating at a mouth, said extension diverging at a second angle, said second angle being greater than said first angle.



Compl. specn. 14 pages.

Drg. 1 sheet

164291

Int. Cl.<sup>4</sup> : C 10 B 57/12.

A METHOD OF PRODUCING A COAL IN WATER SUSPENSION WHICH ON COMBUSTION EMITS SUBSTANTIALLY LOW PERCENTAGE OF HARMFUL SULPHUR CONTAINING SUBSTANCES.

Applicant : MANNESMANN AKTIENGESSELLSCHAFT, A GERMAN COMPANY, OF MANNESMANNUFER 2, D. 4000 DUSSELDORF 1, FEDERAL REPUBLIC OF GERMANY. & L. & C. ST-EINMULLER GmbH, A GERMAN COMPANY, OF FABRIKSTR. 1, D-5270 GUMMERSBACH, FEDERAL REPUBLIC OF GERMANY.

Inventors : HEINZGAESSLER; HELMUT LANDGRAF; KLAUS-DIETER RENNERT.

Application No. 217/Mas/85 filed 22nd March 1985.

Appropriate office for opposition proceedings Rule 4 Patents Rules, 1972) Patent Office, Madras Branch.

10 Claims

A method of producing a coal in water suspension which on combustion emits substantially low percentage of harmful sulphur containing substances characterised in that the coal in water suspension having more than 55% by weight of mineral coal is treated with one or more known sulphur bonding additives in an amount of 0.5 to 4 times the quantity as would be necessary purely stoichiometrically on the basis of the sulphur content of the coal for the complete sulphur bonding before passing it to the burner of the firing installation.

Compl. specn. 8 pages

Drg. Nil

Int. CLASS<sup>4</sup> : A 23 B 7/08

164292

A PROCESS FOR PREPARATION OF PRESERVE OF RADISH.

Applicant : AXLE PLAN CORPORATION, OF MAKI BUILDING 4F, NO. 2-2-2, NISHIKANDA, CHIYODA-KU, TOKYO 101, JAPAN, A JAPANESE CORPORATION.

Inventor : AH LIAN LIAW.

Application No. 589/Mas/86 filed 23 July 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras-2.

3 Claims

A process for preparation of preserve of radish comprises the steps of :

cutting or forming to the desired shape carefully selected radish which was beforehand washed with water and peeled;

impregnating the product obtained with a solution or suspension of calcium salt;

subjecting the impregnated product to deodorization treatment in boiling water; and

removing the treating solution used and impregnating the thus treated product with a solution containing sugar so that the sugaring may be achieved in progressing stages.

Compl. specn. 12 pages

Drg. Nil

Int. CLASS<sup>4</sup> : A 23 L 1/22

164293

A METHOD AND APPARATUS FOR THE PRODUCTION OF A SEASONING.

Applicant : SOCIETE DES PRODUITS NESTLE S.A. CASE POSTALE 353 1800 VEVEY SWITZERLAND A COMPANY INCORPORATED IN SWITZERLAND.

Inventor : ROLAND FAESI; GIANCARLO WERNER; URSULA WOLFENBERGER.

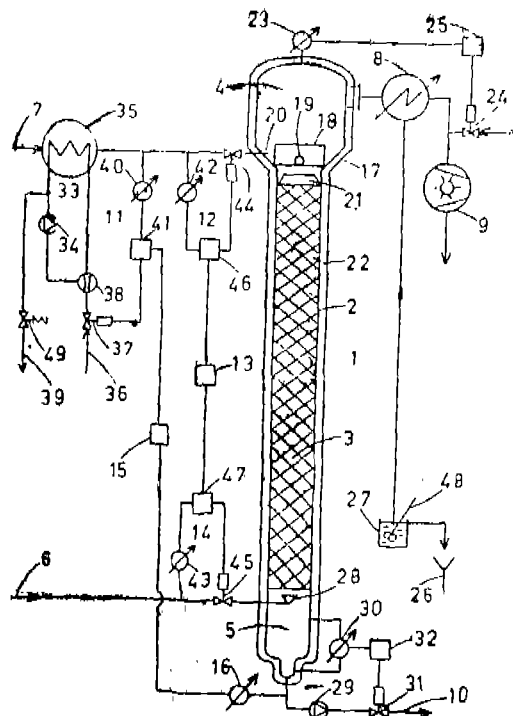
Application No. 871/Mas/86 filed 6th November 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras-2.

9 Claims

A process for the production of a seasoning which comprises hydrolyzing vegetable proteins with concentrated hydrochloric acid, neutralizing the hydrolyzate, separating insolubles therefrom, allowing the hydrolyzate to stand and again separating the insolubles therefrom characterised in that, the hydrolyzate thus obtained is maintained at a

constant density of from 1.250 to 1.265 g/cm<sup>3</sup> and then steam distilled under a pressure of from 100-320 milibar.



Compl. specn. 26 pages

Drg. 1 sheet

Int. Cl.<sup>4</sup> : A 61 K 31/415

164294

A PROCESS FOR PREPARING A COMPOSITION CONSISTING OF AMORPHOUS BENZIMIDAZOLE DERIVATIVES AND A STABILIZER POLYMER.

Applicant : SYNTEX U.S.A. INC., of 3401 Hillview Avenue, PALO ALTO CALIFORNIA 94303, U.S.A., A U.S. COMPANY.

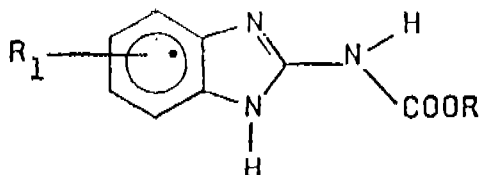
Inventor : RICHARD A. RUNKEL

Application No. 910/MAS/86 filed 26 November 1986.

Appropriate Office for Opposition proceedings (Rule 4, Patents rules, 1972) Patent Office, Madras Branch.

13 Claims

A process for preparing a composition consisting of amorphous benzimidazole derivatives of formula I of the accompanying drawings



of a pharmaceutically acceptable salt thereof and a stabilizer polymer,

wherein

R is alkyl of 1 to 6 carbon atoms; and

R<sub>1</sub> is -S(O)mR<sub>2</sub>, -OR<sub>2</sub>, or

Y<sub>1</sub>(CH<sub>2</sub>)<sub>n</sub>Y<sub>2</sub>R<sub>3</sub> where

Y<sub>1</sub> and Y<sub>2</sub> are each independently O, S, or S(O), R<sub>3</sub> is alkyl of 1 to 6 carbon atoms, phenyl, or naphthyl, and n is 1, 2, 3 or 4;

R<sub>2</sub> is alkyl of 1 to 6 carbon atoms, cycloalkyl, alkenyl of 3 to 7 carbon atoms, alkynyl of 3 to 7 carbon atoms, phenyl, benzyl, phenylethyl, or naphthyl; and

m is 0 or 1;

which process comprises:

(a) dissolving a compound of formula I in an acid or base solution containing a stabilizer polymer such as a cellulosic derivative in an amount between 0.0001 g/(g compound) and 0.9 g/(g compound), followed by

(b) spray drying the solution of step (a) to produce the desired composition.

(The Composition prepared according to this invention has increased anthelmintic activity.)

(Compl. Specn 39 Pages.)

Drg. 1 Sheet.)

Int. Cl.<sup>4</sup> : C 07 D 401/04

164295

A PROCESS OF PREPARATION OF QUINOLONE-CARBOXYLIC ACID DERIVATIVES.

Applicant : KYORIN PHARMACEUTICALS CO. LTD. NO. 5 KANDA SURUGADAI 2-CHOME CHIYODA-KU, TOKYO JAPAN, A JAPANESE COMPANY.

Inventor : TSUTOMU IRIKURA; SEIGO SUZUE; KEIJI HIRAI; TAKAYOSHI ISHIZAKI.

Application No. 922/Mas/86 filed 28 November 1986.

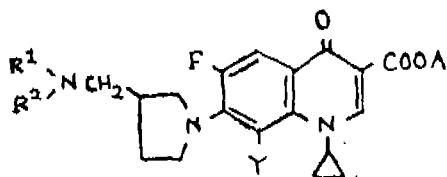
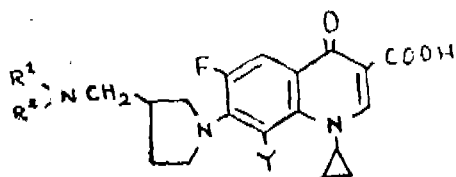
Divided out of Patent Application No. 162769 (886/Mas/85) dated 5-11-85.

Appropriate Office for Opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

2 Claims

A process for the preparation of a quinolonecarboxylic acid of the formula I of the accompanying drawings, wherein R<sup>1</sup> and R<sup>2</sup> are each independently hydrogen atom or lower alkyl group having 1 to 4 carbon atoms and Y is hydrogen atom or halogen atom: the hydrates or the pharmaceutically acceptable acid addition or alkali salts thereof, which comprises hydrolyzing a compound of the formula II of the accompanying drawings, wherein R<sup>1</sup> and R<sup>2</sup> are each independently hydrogen atom or lower alkyl group having 1 to 4 carbon atoms, Y is hydrogen atom or halogen atom and A is lower alkyl group having 1 to 4 carbon atoms, with alkali metal hydroxide or mineral acid in an appropriate solvent at room temperature to boiling temperature of the solvent for 0.5 to 5 hours, the

said compound of formula II being prepared by a process claimed in the Indian Patent application No. 886/Mas/85.



The compounds prepared according to this invention are valuable in human and veterinary medicine because of their greater activity and broader spectrum against both aerobic and anaerobic bacteria.

Compl. specn. 7 pages

Drg. 1 sheet

CLASS : 170 B & D  
Int. Cl. : C11D—1/28, 3/395.

164296

A PROCESS FOR THE MANUFACTURE OF BUILT LAUNDRY BARS.

Applicant : HINDUSTAN LEVER LIMITED, A COMPANY INCORPORATED UNDER THE INDIAN COMPANIES ACT 1913, OF HINDUSTAN LEVER HOUSE, 165/166, BACKBAY RECLAMATION, BOMBAY-400020, MAHARASHTRA, INDIA.

Inventor : PETER JAMES POWERS.

Application No. 49/Bom/1986 filed on 7th February, 1986.

Convention Priority date—15th February, 1985 (U.K./85 03980).

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, Bombay.

7 Claims

A process for the manufacture of built laundry bars containing from 5% to 45% by weight of non-soap detergent-active material with fatty acid ester sulphonate forming at least 5% by weight of the product and from 5% to 60% by weight of detergent builder such as herein defined, wherein fatty acid ester sulphonate is mixed with the other components such as herein described characterised in that a chlorine bleaching agent is added with the said other components in an amount effective to bleach the fatty acid ester sulphonate present.

Compl. specn. 17 pages

Drg. Nil

CLASS : 31 C [LVIII(2)]

164297

Int. Cl. : H01C—10/30.

IMPROVED CONTACT SYSTEM FOR WIREWOUND POTENTIOMETER.

Applicant & Inventor : VIDYADHAR KRISHNARAO MAHAJAN, UNIVERSAL AUTOMATION, SUSANGAT, 47 MITRAMANDAL, PUNE-411009, MAHARASHTRA, INDIA.

Application No. 117/Bom/1986 filed on 7th April, 1986.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, Bombay.

1 Claim

Improved contact system for wirewound potentiometer comprising :

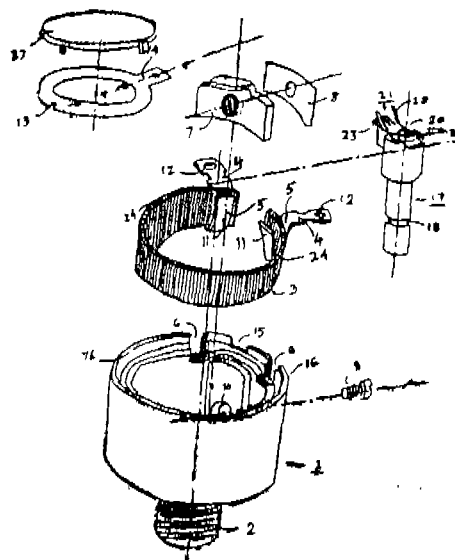
(a) two fixed terminals; and

(b) a travelling contact, characterised in that each of the said fixed terminals is provided with a 'U' shaped terminal strip, one arm is kept longer and bent to protrude out of the potentiometer body the wirewound flat element is fixed between the two arms of the said 'U' shaped terminals the entire assembly is securedly held with the help of a pressure plate and clamping screw designed to press the terminal and the coil end between the body of the potentiometer;

the said pressure plate which also acts as a stopper when bent in at the top against the wall of the housing of the said meter and there is provided a thin insulating paper to facilitate quick transfer of heat of soldering iron through it and still electrically insulate the pressure plate and the coil;

the said insulating paper is positioned between the outer surface of the arms of the 'U' shaped terminals and the pressure plate arrangement being such that the heat imparted by the soldering iron is instantly dissipated which in turn increases efficiency and life of the potentiometer;

further characterised in that a travelling contact is having a multifingered construction for more reliable contact the outer most fingers on both sides are bent upwards to provide contact with the central terminal plate and the middle ones are straight or slightly bent downwards so as to establish positive contact with the resistance element.



Compl. specn. 8 pages

Drg. 1 sheet

CLASS : 98 E [VII(2)], 177 B [XLV(5)]

164298

Int. Cl. : F28D—3/02, F28F—13/00.

HEAT EXCHANGER.

Applicant : BALCKE-DURR AKTIENGESellschaft, A JOINT STOCK COMPANY, ORGANISED UNDER THE LAWS OF THE FEDERAL GERMAN REPUBLIC, 4030 RATINGEN, HOMBERGER STRASS 2, GERMANY.

Inventor : HUBERT NOWAK.

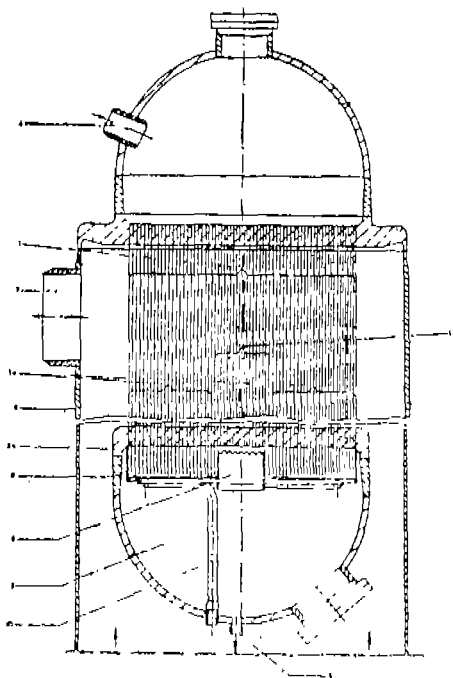
10 Claims

Application No. 358/Bom/1986 filed on 22nd December, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Bombay-13.

## 3 Claims

Heat exchanger, in particular a steam heated intermediate superheater, or reheater, with a tube bundle which is located between a header chamber and a collecting chamber, this tube bundle being provided for the through passage of a heat rejecting medium that condenses in the tubes and thereby heats a medium which is directed onto their external surfaces, the said heat rejecting medium containing inert gases, characterised in that at least those tubes (1a) of the tube bundle (1), which, being situated in the edge zone, are subject to the risk of reverse flow are led through the tube plate (3a) associated with the collecting chamber (3), with their ends projecting into a condensate collecting through (8) which is provided with a condensate overflow (9) located at a level higher than the tube ends.



Compl. specn. 9 pages

Drg. 1 sheet

Ind. Cl. : 70 C 5 [LVIII (5)] &amp; 98 G [VII(2)]. 164299

Int. Cl. : B 21 D-53/02, C 23 F-15/00.

**A DEVICE TO CONTROL CORROSION OF AN ACTIVE PASSIVE METAL EQUIPMENT HANDLING COMPATIBLE ELECTRICALLY CONDUCTING CORROSIVE SOLUTION.**

Applicant : LARSEN &amp; TOUBRO LTD., L &amp; T HOUSE, BALLARD ESTATE, BOMBAY-400 038, MAHARASHTRA, INDIA.

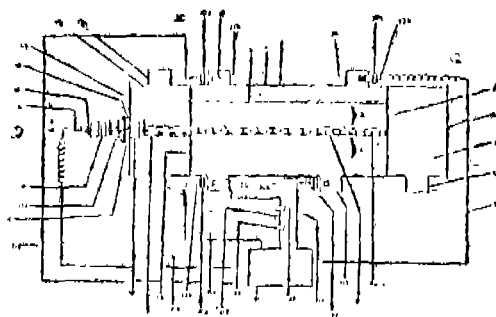
Inventors : 1. VEMURI PADMANABHA SASTRY.

Inventors : 1. VEMURI PADMANABHA SASTRY. 2. KUNDURTI RAVINDRANATH.

Application No 25/Bom/1987 filed on 29th January, 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Bombay-400 013.

1. A device to control corrosion of an active passive metal equipment handling a compatible electrically conductive corrosive solution, said equipment being such as herein described and made of active passive metal such as herein described and handling a compatible electrically conducting corrosive solution such as herein described and serving as the anode of said device, said device comprising a main cathode enclosed in a fully perforated or partly perforated sheath made of corrosion resistant electrically insulating material such as herein described, said sheath being supported in said equipment at predetermined place in leakproof manner such that said main cathode is in contact with said corrosive solution through the perforations in said sheath, at least one auxiliary cathode supported in said equipment at predetermined place in contact with said corrosive solution, said auxiliary cathode being supported in said equipment in leakproof manner and electrically insulated therefrom, at least one reference electrode supported in said equipment at predetermined place in contact with said corrosive solution, said reference electrode being supported in said equipment in leakproof manner and electrically insulated therefrom, and a potentiostatic controller or potential control amplifier electrically connected to said equipment (anode), main cathode, auxiliary cathode and reference electrode and connectable to a power supply.



Compl. Specn. 23 pages.

Drgs. 2 sheets.

CLASS : 129 D.

164300

Int. Cl. : C 22 C-21/04 + C 22 F-1/043.

**A METHOD OF MANUFACTURING A METALLIC SODIUM FLUX FOR THE MODIFICATION TREATMENT OF MOLTEN ALUMINIUM ALLOY CONTAINING SILICON.**

Applicant : GREAVES FOSCO LIMITED, JOLLY BHAVAN NO. 2, 1ST FLOOR NEW MARINE LINES, BOMBAY-400 020, MAHARASHTRA, INDIA. AN INDIAN COMPANY.

Inventor : PATWARDHAN JAYANT YESHWANT.

Application No. 39/Bom/1987 filed on 10th February, 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Bombay-400 013.

## 2 Claims

A method of manufacturing a metallic sodium flux for the modification treatment of molten aluminium alloy containing silicon, said method comprises :

- (i) filling molten metallic sodium at 125°C—150°C in an aluminium dished portion upto the brim thereof, the miniscus of the molten metallic sodium at the brim of the dished portion being convex shaped;



- (ii) introducing an aluminium lid at the mouth of the dished portion in close contact with the convex shaped meniscus of the molten metallic sodium such that no air space exists between the meniscus of the molten metallic sodium and the lid;
- (iii) sealing the lid and brim of the dished portion together leakproof and airtight in known manner such as herein described;
- (iv) cooling the resulting flux to room temperature;
- (v) removing traces of sodium, if any externally at the joint between the dished portion and lid in known manner as herein described; and
- (vi) checking leakage of sodium in known manner as herein described.

Compl. Specn. 9 pages.

Drg. 1 sheet.

CLASS : 103

164301

Int. Cl. : C 23 f 11/00; C 09 k 3/00.

A METHOD OF PRODUCING A DURABLE, LONG LASTING CHEMICALLY RESISTANT, PH TOLERANT, CORROSION INHIBITING FILM ON THE SURFACE OF COPPER OR COPPER CONTAINING METAL IN CONTACT WITH AN AGGRESSIVE DYNAMIC AQUEOUS SYSTEM.

Applicant : BETZ INTERNATIONAL, INC., OF SOMERTON ROAD, TREVOSE, PENNSYLVANIA 19047, U.S.A.

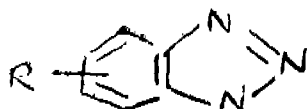
Inventor : 1. ORIN HOLLANDER.

Application No. 485/Cal/85 filed June 28, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 16 Claims

A method of producing a durable, long lasting chemically resistant, pH tolerant, corrosion inhibiting film on the surface of copper or copper containing metal in contact with an aggressive dynamic aqueous system substantially free of glycols having a pH substantially neutral to alkaline which comprises adding in a non-continuous manner a sufficient amount for the purpose of an alkyl benzotriazole having the formula I of the accompanying drawing



where R is a C<sub>2</sub> to C<sub>12</sub> linear hydrocarbon, and permitting contact of said triazole for a time sufficient to provide said film and thereafter discontinuing the feed of said triazole and permitting any residual triazole to deplete.

Compl. specn. 16 pages

Drg. 1 sheet

4-457 GI/88

CLASS : 134-D

164302

Int. Cl. : B 62 d 3/00.

HYDRAULIC CONTROL VALVE FOR A POWER ASSISTED STEERING SYSTEMS FOR A VEHICLE.

Applicant : ARTHUR ERNEST BISHOP, OF 17 BURTON STREET, MOSMAN, NEW SOUTH WALES, COMMONWEALTH OF AUSTRALIA.

Inventors : 1. ARTHUR ERNEST BISHOP, 2. JOHN BAXTER.

Application No. 582/Cal/85 filed August 7, 1985.

Convention dated 8th August, 1984 (PG 6458) Australia.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 10 Claims

A hydraulic control valve for a power assisted steering system for a vehicle, the valve comprising :

a sleeve member (11) in a rotatable sealing relationship within a housing (1);

the sleeve member having a bore in the surface of which is a first set of longitudinally extending grooves (18a) separated by lands;

a valve core (10) fitting closely within the bore of the sleeve member (11) and relatively rotatable therein;

a second set of longitudinally extending grooves (18);

also separated by lands, on the surface of the valve core (10);

each groove (18a) of the first set lying opposite to a land of the second set;

the width of some at least of the grooves (18 and 18a) or lands varying along their lengths an axially extending torsion bar (12) connecting the valve core (10) to the sleeve member (11);

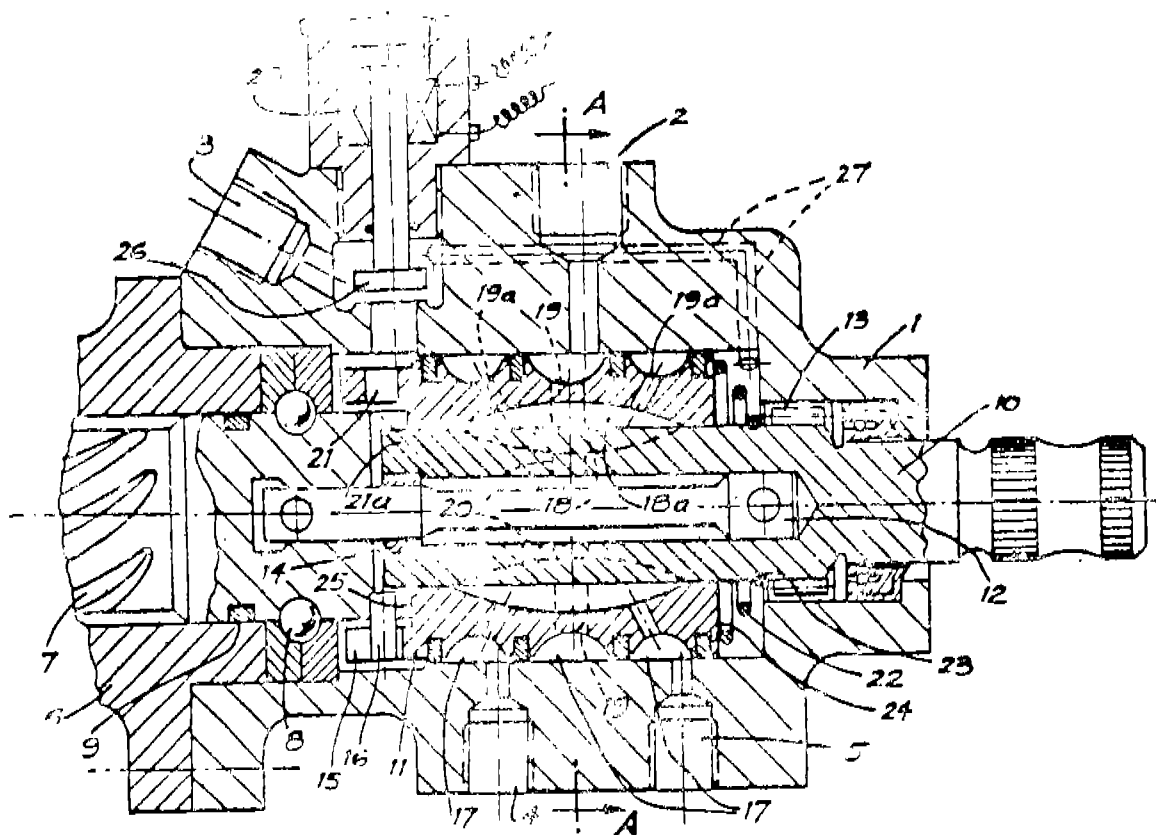
whereby an applied steering force causes rotation of the sleeve member (11) relative to the housing (1);

means (2, 3, 4, 5) to conduct hydraulic fluid under pressure into and out of said valve;

limited relative rotation between the valve core (10) and the sleeve member (11) acting to vary the effective width and therefore the area of orifices defined by adjacent edges of opposing grooves and lands, and so to control the restriction to flow of hydraulic fluid within the valve and thus the power assistance provided to the system;

characterized in that the sleeve member (11) is movable axially both with respect to the housing (1) and the valve core (10) to change the length and thus

further change the area of said orifices available for the flow of hydraulic fluid and thereby alter the degree of assistance provided.



Compl. specn. 19 pages

Drig. 6 sheets

Inventor : WERNER BABEL.

Application No. 908/Cal/85 filed December 18, 1985.

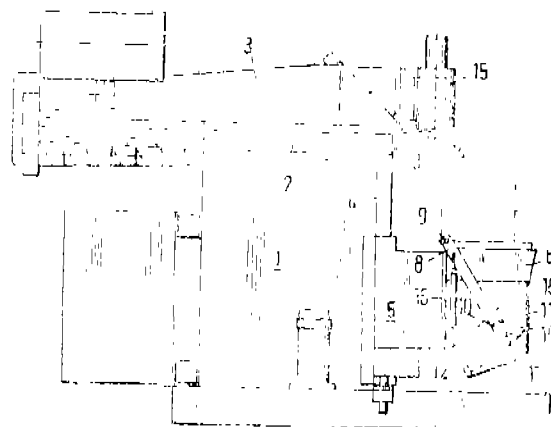
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

11 Claims

A tool magazine, more particularly for milling and drilling machines, comprising :

a straight tool carrier which has a row of tool holding fixtures and which swings on the work table;

characterised in that the tool carrier is secured obliquely to the end of at least one swing arm which is arranged on the work table in such a way that it swings about a horizontal axis.



Compl. specn. 11 pages

Drig. 4 sheets

CLASS : 144-E<sub>2</sub>.

164303

Int. Cl. : C 09 d 1 700

AN IMPROVED PAINT COMPOSITION HAVING CHITOSAN DERIVATIVES.

Applicant & Inventor : DR. KRISHNA SOFT OF 41, PALACE COURT, 1, KYD STREET, CALCUTTA, WEST BENGAL.

Application No. 829/Cal/85 filed November 21, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims

An improved synergistic paint composition comprising any commercially available paint as herein described in association with chitosan derivatives as herein described in the range of commercial paint to Chitosan derivatives from 1 : 0.2 to 1 : 2.5 by volume.

Compl. specn. 8 pages.

Drig. Nil

CLASS : 129-C & F

164304

Int. Cl. : B 23 b 29/00.

TOOL MAGAZINE.

Applicant : MAHO AKTIENGESSELLSCHAFT OF 8962 PFONTEN/ALLGAU, WEST GERMANY.

Int. Cl. : B 01 j 2/00; B 29 b 9/00;  
C 01 b 17/00.

164305

# PROCESS FOR PRODUCING POWDER-LIKE SULPHUR PREPARATIONS.

Applicants & Inventors : (1) IVAN IVANOVICH ZOZ-  
ULYA, OF NOVY ROZDOL, PROSPEKT ZHOVT-  
NEVY, 25, KV. 33, USSR; (2) ANDREI FEDOROVICH  
GRESKO, OF NOVY ROZDOL, PROSPEKT ZHOVT-  
NEVY, 14, KV. 31 USSR, (3) ANATOLY STEPANOVICH  
KOSTYRKO, USSR, LVOV, ULITSA BASSEINAYS,  
13, KV. 7, (4) MIKHAIL RUVIMOVICH  
OVSISCHER, USSR, MOSCOW ULITSA PRIOROVA, 19,  
KV. 26. (5) VLADIMIR FEDOROVICH REUTSKY,  
USSR, NOVY ROZDOL, PROSPEKT ZHOVTNEVY, 14,

KV. 11. (6) IVAN DANILOVICH KRIVOSHEEV, USSR,  
NOVY ROZDOL, PROSPEKT ZHOVTNEVY, 14, KV.  
11, (7) ALEXEI ANDREEVICH LAVRINENKO, USSR,  
NOVY ROZDOL, ULITSA PIONEZSKAYA, 18, KV. 20,  
(8) JURY IVANOVICH GOLOVLEV, USSR, LVOV,  
ULITSA KULPARKOVSKAYA, 14, KV. 152, (9) LEO-  
NID KUZMICH SLOBODYANJUK, USSR, NOVY ROZ-  
DOL, PROSPEKT ZHOVTNEVY 26A, KV. 17, (10) VASI-  
LIVANOVICH IVANUS, USSR, NOVY ROZDOL, PROS-  
PEKT ZHOVTNEVY, 26, KV. 97.

Application No. 33/Cal/86 filed January 17, 1986.

Appropriate office for opposition proceedings (Rule 4,  
Patents Rules, 1972) Patent Office, Calcutta.

## 5 Claims

Process for producing powder-like sulphur preparations  
comprising preparation of a suspension of sulphur by a  
conventional method in aqueous medium, dehydration  
thereof to a paste-like state to a moisture content within  
the range of from 10 to 20% by mass, followed by granu-  
lation of the resulting paste.

Compl. specn. 11 pages

Drg. Nil

Int. Cl. : C 07 c 127/00

164306

# PROCESS FOR PREPARING NEW BENZOYL-UREA DERIVATIVES.

Applicant : ISTITUTO GUIDO DONEGANI S.p.A.,  
VIA CADUTI DEL LAVORO, 28100 NOVARA, ITALY.

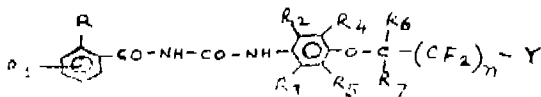
Inventors : 1. PIETRO MASSARDO, 2. FRANCO  
RAMA, 3. PAOLO PICCARDI, 4. VINCENZO CAPRIO-  
LI.

Application No. 185/Cal/86 filed March 12, 1986.

Appropriate office for opposition proceedings (Rule 4,  
Patents Rules, 1972) Patent Office, Calcutta.

## 6 Claims

Process for preparing compounds of formula (I) shown  
in the accompanying drawings.



R is selected from the group consisting of chlorine and fluorine;

R<sub>1</sub> is selected from the group consisting of hydrogen, chlorine  
and fluorine;

R<sub>2</sub> and R<sub>3</sub>, equal to or different from each other, are selected  
from the group consisting of hydrogen, chlorine, fluorine and  
a C<sub>1</sub>-C<sub>4</sub> alkyl;

R<sub>4</sub> and R<sub>5</sub>, equal to or different from each other, are selected  
from the group consisting of hydrogen, chlorine, fluorine  
alkyl, haloalkyl, alkoxy, haloalkoxy, alkenyl, haloalkenyl  
alkenyloxy, haloalkenyloxy and alkynyl groups;

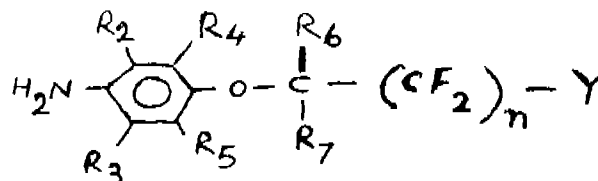
R<sub>6</sub> and R<sub>7</sub>, equal to or different from each other, are selected  
from the group consisting of hydrogen and alkyl groups con-  
taining from 1 to 3 carbon atoms, optionally substituted by  
chlorine and fluorine atoms;

Y is selected from the group consisting of hydrogen and fluo-  
rine; and

n is a whole number from 1 to 4, extremes included, character-  
ized in that it consists in reacting, in an inert solvent and at a  
temperature ranging between 0°C and the boiling temperature  
of the reaction mixture, a benzoylisocyanate having formula  
(II) shown in the drawings.

wherein R and R<sub>1</sub> have the same meanings as in formula (I)

with a compound of formula (III) shown in the drawings



wherein R<sub>2</sub>, R<sub>3</sub>, R<sub>4</sub>, R<sub>5</sub>, R<sub>6</sub>, R<sub>7</sub>, Y and n have the same mean-  
ings as in aforesaid formula (I).

C. compl. Specn. 16 Pages.

Drg. 4 Sheets.

CLASS : 131-B<sub>4</sub>

164307

Int. Cl. : E 21 c 1/00.

## ACTIVATED ROCK CUTTING TOOL ASSEMBLY.

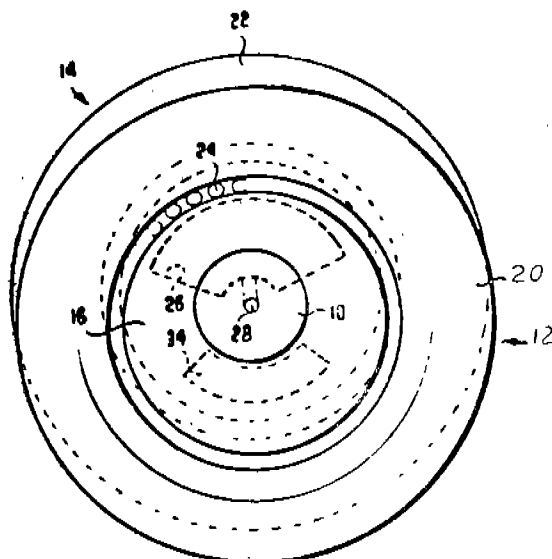
Applicant : GENERAL MINING UNION CORPORA-  
TION LIMITED OF 6 HOLLARD STREET, JOHAN-  
NESBURG, TRANSVAAL, REPUBLIC OF SOUTH  
AFRICA.

Inventors : 1. DIETER LENZEN, 2. PHILIP BECHEM.  
Application No. 434/Cal/86 filed June 11, 1986.

Appropriate office for opposition proceedings (Rule 4,  
Patents Rules, 1972) Patent Office, Calcutta.

## 10 Claims

An activated rock cutting tool assembly characterised by a rock cutting roller (12, 14) which is eccentrically mounted on a drive arrangement (10) and means (26, 34, 44, 54) for varying the mass of the assembly about the drive axis of the drive arrangement (10) so that the balance of the assembly may be made variable about the drive axis.



Compl. specn. 8 pages

Drg. 3 sheets

CLASS : 131-B4

164308

Int. Cl. : E 21 c 1/00.

## ROCK CUTTING TOOL ASSEMBLY.

Applicant : GENEERAL MINING UNION CORPORATION LIMITED OF 6 HOLLARD STREET, JOHANNESBURG, TRANSVAAL, REPUBLIC OF SOUTH AFRICA.

Inventors : 1. DIETER LENZEN, 2. PHILIP BECHEM.

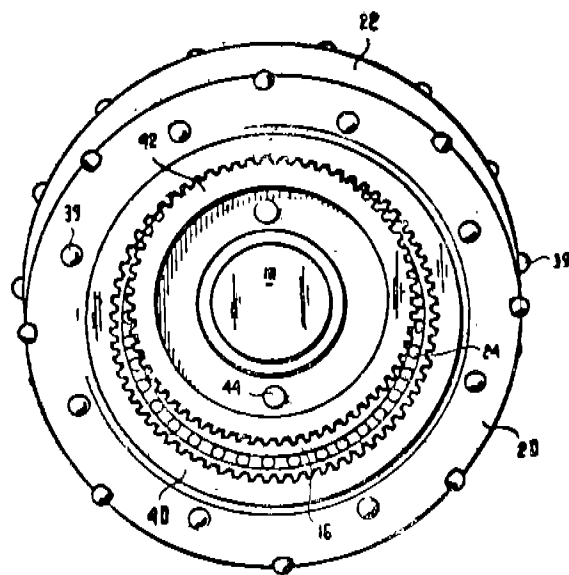
Application No. 435/Cal/86 filed June 11, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 7 Claims

A rock cutting tool assembly including a rock cutting roller (14) characterised in that the roller is composed of a central hub portion (18) and an annular cutting element (26) which is rotatably mounted on the hub (18) and carries rock cutting formations (29), means for driving the hub portion of the roller about an axis which is eccentrically displaced from the hub axis (18), means (32, 34) engaged with the annular cutting element (26) to limit its direction of rotation relatively to that of its hub (18) to

one direction only and means (48) for balancing the roller (14) against its eccentricity as the hub (18) is rotated about its drive axis.



Compl. specn. 8 pages

Drg. 2 sheets

Int. Cl. : F 02 c 6/00

164309

## IMPROVEMENTS IN OR RELATING TO STATIONARY BLADE ASSEMBLY FOR A STEAM TURBINE.

Applicant : WESTINGHOUSE ELECTRIC CORPORATION, OF WESTINGHOUSE BUILDING, GATEWAY CENTER, PITTSBURGH, PENNSYLVANIA 15222, U. S. A.

Inventors : 1. FRANK ANDREW PISZ, 2. WILLIAM SEBASTIAN AGLIANO.

Application No. 465/Cal/86 filed June 23, 1986.

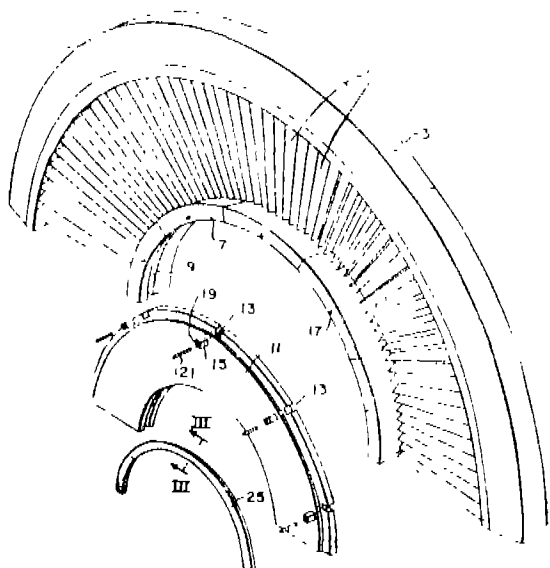
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 3 Claims

A stationary blade assembly for a steam turbine, said assembly comprising :

- an arcuate bar extending generally 180°;
- an array of stationary airfoil-shaped blades extending radially inwardly from the arcuate bar;
- a plurality of arcuate shroud segments disposed on the radially inner end of the blades;
- the arcuate shroud segments generally extending 180° and having a circumferentially-extending groove disposed on their radially inner side;
- an arcuate plate extending generally 180°, the radially outer edge of the arcuate plate being received by the groove in the shroud segments;
- the arcuate plate having a plurality of kerfs disposed in its radially outer edge;
- a plurality of keys slidably received by the kerfs;
- means for holding the keys in the circumferential groove in the shroud segments;

whereby the arcuate plate is held in place within the groove but is free to expand due to thermal gradients without transmitting stresses to the shroud segments and the blade assembly and at the same time maintaining concentricity with the rotor.



Compl. specn. 6 pages

Drg 1 sheet

Int. D 03 d 49/00; F 16 h 25/00.

164310

POSITIVE CAM SHEDDING DEVICE FOR USE WITH LOOMS.

Applicant : TSUDAKOMA CORPORATION, OF NO. 18-18 5-CHOME, MO-MACHI, KANAZAWA-CITY, ISHIKAWA PREFECTURE, JAPAN.

Inventors : 1. SHOICH KUWAHARA, 2. NOBUAKI SHIMIZU.

Application No. 104/Cal/87 filed February 3, 1987.

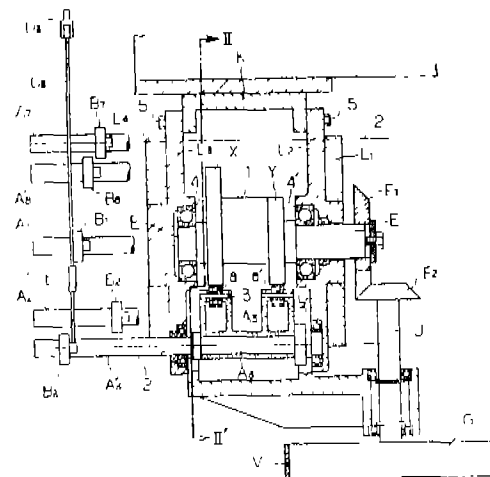
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 2 Claims

A positive cam shedding device for use with looms comprising :

a cam provided with two cam tracks for determining shedding motion, and cam levers each having two cam balls contacted with the cam tracks of the cam to hold the cam between the two cam balls and having substantially same shape;

said cam levers being arranged on a circle concentric with the rotation shaft of the cam, characterized in that support brackets are detachably arranged on both opposite sides of a cam box and that shafts of the cam levers are swingably supported by the support brackets.



Compl. specn. 14 pages

Drg. 5 sheets

R. A. ACHARYA

Controller General of Patents, Designs and Trade Marks

